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September 26, 2008

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RE: Milestone Report for Upland Source Control at the Portland Harbor Superfund Site

Dear Kristine,

Please find enclosed the DEQ Milestone Report for Upland Source Control at the Portland Harbor Superfund Site, dated September 2008. Two hard copies of the report are included for your convenience, I cc'ed EPA's Oregon Ops Office with 1 copy, and DEQ will provide hard copies to EPA partners and members of the public upon request as well. The report will also be posted on DEQ's web site within the next 2 weeks.[1]

Despite continuing challenges, DEQ accomplished much over the past 9 months in the Portland Harbor. In addition to the source control achievements highlighted below, we continue to be an active partner to EPA in its important work completing the in-water RI, FS, and ROD; in addition to our support for EPA's early actions and emerging NRDA work.

As you will see below and in the report, DEQ, working with our PRPs, made significant progress identifying source control goals at each of our sites, and establishing clear actions timelines and agreements required to complete them. In the process, we continue to refine the tools available to us to complete this work, such as the issuance of our draft Stormwater Source Control Guidance in May of this year, and our continued discussions with the City of Portland on innovative bankline designs.

I'd like to summarize some of the more significant achievements we've made in Portland Harbor source control, provide a general status of our efforts, and briefly describe our focus for the future.

Significant Achievements

[1] Milestone Reports are available at www.deq.state.or.us/lq/cu/nwr/PortlandHarbor/jointsource.htm.

Some of the more significant achievements we've recently made in Portland Harbor source control include:

1) Design, pilot testing, and construction of a stormwater treatment system at Oregon Steel Mills.
2) Initial design of bankline treatment at Oregon Steel Mills. Treatment scheduled to be completed in summer 2009.
3) Implementation of a significant upland source control/beach/nearshore sediment effort at the ARCO/BP facility.
4) Initial approval of the design of a subsurface barrier wall and hydraulic containment system at Gasco. Construction is scheduled for early 2009.
5) Initial design for source area measure at the Siltronic site. Source control (in-situ bioremediation) construction is scheduled for early 2009.
6) Kickoff of site discovery and source control work at river Mile 11. DEQ identified and is engaging PRPs in this new area of interest.
7) Completion of the Downtown Portland sediment investigation upstream of Portland Harbor.
8) Initiation of a source control evaluation of the former Portland Manufactured Gas Plant site (River Mile 12.2W).
9) Acquisition of additional staff resources for source control work. We recently hired a new project manager and GIS coordinator who will help supplement our staff resources working on the Portland Harbor project. We also plan to hire a 2nd new project manager before the end of the year.

General Status

DEQ believes we have identified all or nearly all of the significant upland sources threatening the river in the Portland Harbor Study area. Furthermore, most of these significant sources are in our Cleanup Program and are either completing their source control evaluation (SCE) or developing and/or constructing source control measures (SCMs). Currently, we are primarily focusing on completing SCEs and implementing SCMs at the Portland Harbor High Priority sites.

While much remains to be done, we've made significant progress in all these High Priority sites, and for the majority of the incomplete sites, stormwater is the only outstanding pathway left to be evaluated.

Focus for the Future

The primary focus for the future will continue to be completing SCEs and implementing SCMs at the Portland Harbor High Priority sites. With our new stormwater guidance, and further refinement of the in-water RI, we should also be able to close out many stormwater pathway sites working on. This work will help inform broader source control tools and solutions that may be required in order to achieve our shared objectives for a healthy river.

As you review the September 2008 Milestone Report, please contact me or Matt McClincy with any suggestions, comments, or questions.

Thank you for your continued assistance in coordinating EPA's support to DEQ on Portland Harbor source control work. Please let us know if you would like to convene a meeting with DEQ and interested EPA partners to discuss the September 2008 Milestone Report, including site prioritization and source control progress.

We anticipate submitting the next Milestone Report in March 2009.

Sincerely,

James M Anderson, Manager
Portland Harbor Section

Cc: Matt McClincy, DEQ/NWR
Keith Johnson, DEQ/NWR
Dick Pedersen, DEQ/HQ

Milestone Report

for Upland Source Control at the Portland Harbor Superfund Site

September 2008

Prepared by the Oregon Department of Environmental Quality

DEQ
State of Oregon
Department of
Environmental
Quality

This document is posted on DEQ's web page at
http://www.deq.state.or.us/lq/cu/nwr/PortlandHarbor/jointsource.htm.

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Table 1. Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor
Table 2. Status of High Priority Sites
Figure 1-a-c. Land Zoning and Ownership

1.0 Introduction

On December 1, 2000, a section of the lower Willamette River within the City of Portland, the Portland Harbor, was added to the Superfund National Priority List (NPL). In February 2001, the Oregon Department of Environmental Quality (DEQ), United States Environmental Protection Agency (EPA), and other governmental parties[1] signed a Memorandum of Understanding (MOU) that provided a framework for cooperation in the investigation and cleanup of the Portland Harbor Superfund Site to optimize federal, state, tribal and trustee expertise and available resources.

Under the 2001 MOU, EPA was designated as the Lead Agency for investigating and cleaning up "in-water" contamination in the Harbor, i.e., contamination in the river water and underlying sediment using federal Superfund authorities. DEQ, using state cleanup authority, was designated as the Lead Agency for identifying and controlling "upland" sources of contamination, i.e., those sources of pollution adjacent to or near the river that may be contaminating river water or sediments. To coordinate in-water cleanup and upland source control work, the MOU directed DEQ and EPA to jointly develop a source control strategy that defines a process for identifying and controlling potential sources of contamination threatening the river.

DEQ and EPA finalized the Portland Harbor Joint Source Control Strategy (JSCS) in December 2005[2]. The overarching goal of the JSCS is to identify, evaluate and control sources of contamination that may affect the Willamette River in coordination with the objectives and schedule for the Portland Harbor remedial investigation and feasibility study (RI/FS). Upland source control is necessary to allow cleanup of the river to proceed without risk of significant recontamination. DEQ is currently implementing the JSCS in the Portland Harbor Superfund Site study area – approximately River Mile 1 to River Mile 11.8[3].

The JSCS requires DEQ to prepare a Milestone Report on a quarterly basis that summarizes the status of DEQ's upland source control work. The report submittal schedule has been changed to bi-yearly. This is the sixth Milestone Report; the first report was prepared in March 2006, the second report in June 2006, the third report in December 2006, the fourth in July 2007, and the fifth in January 2008. Milestone Reports are submitted to EPA, and provide the basis for potential meetings with EPA and our government partners to discuss site prioritization and

[1] The signatory partners to the MOU include the EPA, DEQ, Confederated Tribes and Bands of the Yakama Nation, Confederated Tribes of the Grand Ronde Community of Oregon, Confederated Tribes of Siletz Indians, Confederated Tribes of the Umatilla Indian Reservation, Confederated Tribes of the Warm Springs Reservation of Oregon, Nez Perce Tribe, National Oceanic and Atmospheric Administration, Oregon Department of Fish and Wildlife, and U.S. Department of the Interior.

[2] The JSCS is available on DEQ's web site at http://www.deq.state.or.us/lq/cu/nwr/PortlandHarbor/jointsource.htm click "Joint Source Control Strategy" on the left side bar.

[3] "River Mile" indicates the distance from the Willamette River's confluence with the Columbia River (i.e., River Mile 11.8 is 11.8 miles upstream of the confluence).

source control progress. These reports also serve as documentation of progress on river-wide source control within Portland Harbor.

1.1 Organization of the Milestone Report

The Milestone Report is organized as follows.

- Section 2.0: Identifying Potential Sources of Contamination in Portland Harbor – This section describes DEQ's work to identify potential sources of contamination to the Willamette River in Portland Harbor, including site discovery and site assessment activities.
- Section 3.0: Evaluating Potential Sources of Contamination to the River – This section describes DEQ's status and schedule for the evaluation of all confirmed or suspected upland sources of contamination to Portland Harbor, as summarized in Table 1.
- Section 4.0: Taking Measures to Control Sources and Making Source Control Decisions – This section describes the source control measures used at upland sites in Portland Harbor and the process for making source control decisions, including coordination with EPA and our government partners, and public involvement opportunities. Source control measures and decisions are summarized in Table 1.
- Section 5.0: Status of Ongoing and Completed Source Control Activities – This section describes the information presented in Table 1 that summarizes the status of ongoing and completed source control measures. This section also describes the specific status of the 17 High Priority and Preliminary High Priority sites (Table 2). This section also presents five specific source control goals designed to help DEQ focus our efforts to achieve the overarching goal of source control.
- Section 6.0: Issues Encountered in Source Control Work – This section describes issues affecting DEQ's ability to conduct source control work and identifies paths forward towards resolution.
- Section 7.0: Summary – This section summarizes the overall status of source control work in Portland Harbor, highlighting accomplishments, key issues and next steps for moving forward.
- Section 8.0: Obtaining Additional Information on Upland Source Control Work – This section indicates where additional information can be found on the status of source control work at upland sites in Portland Harbor.
- Section 9.0: Information on Table 1: Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor – This section provides helpful information for interpreting Table 1, including definition of key terms and acronyms used.

2.0 Identifying Potential Sources of Contamination in Portland Harbor

DEQ's strategy for identifying and investigating potential sources of contamination to Portland Harbor prior to the December 2000 Superfund Site listing was described in the March 2006 Milestone Report. Those site identification and investigation activities were initially focused on a

six-mile stretch of the lower Willamette River (now known as the Initial Study Area) extending from the southern tip of Sauvie Island upstream to Swan Island, from approximately River Mile 3.5 to River Mile 9.2. For more information, please see the March 2006 Milestone Report at www.deq.state.or.us/lq/cu/nwr/PortlandHarbor/jointsource.htm.

2.1 Recent Site Discovery and Site Assessment activities

As the Portland Harbor study area has grown to include nearly an 11-mile stretch of the lower Willamette River extending from River Mile 1 to River Mile 11.8, DEQ's site discovery and site assessment efforts have expanded with it.

DEQ focused our site discovery and site assessment work on identifying potential sources of contamination threatening the river through stormwater that is piped to the river from surrounding upland areas. As described below, a number of stormwater data collection efforts were completed or are being conducted, and are being used by DEQ to target our source identification efforts.

DEQ is working closely with the City of Portland to identify upland sources contributing contamination via both the City's municipal stormwater system and private stormwater systems. The City continues its efforts to identify potential sources of contaminants by collecting in-line sediment samples from stormwater pipes from select locations within their stormwater system. DEQ used this type of information within Outfall Basin 18 (a high priority outfall basin based on Round 2 river sediment data) to identify at least two new sites (Wilhelm Trucking and Container Management) that have entered DEQ's Cleanup Program and are completing stormwater investigations and cleanups. During the 2007-2008 rain season, the City collected in-line sediment samples in several other outfall basins. These data will be available in early-fall 2008, and will be reviewed by the City and DEQ to identify areas where additional source identification and/or source control work may be needed. In-line sediment data may also be useful in the future for helping to determine whether source control measures have been effective at reducing contaminant loading to the river from stormwater discharges.

Also during the 2007-2008 rain season, the City implemented a sampling plan that provided "end-of-pipe" stormwater data from most City outfall basins that are not being addressed through other sampling activities (e.g., Lower Willamette Group (LWG) stormwater assessment). At this stage, end-of-pipe data are one line of evidence that is used to verify the presence or absence of sources needing control.

The LWG completed an extensive Portland Harbor stormwater sampling effort in 2007-2008 to provide data for evaluating the potential risk related to in-river fish tissue chemical burdens and sediment recontamination potential from stormwater discharges to the river. The LWG obtained stormwater information from 31 locations in Portland Harbor. The sampling rationale involves using "representative" estimates of stormwater chemical concentrations for various land-use types, and using a land-use-based chemical load modeling approach to estimate stormwater loads across the entire Site.

While the primary objective of this data collection effort was to develop generic contaminant loading rates for land-use categories, DEQ will be able to use the data collected at individual sampling locations to augment our source control investigations at these sites. For the remainder of 2008, DEQ expects to review the LWG stormwater data to identify areas where additional stormwater source control may be needed. This information will help DEQ target and prioritize our source identification activities. Evaluating and controlling stormwater inputs into the Harbor will continue to be a focus for DEQ in the yeas to come.

In addition, as the Portland Harbor Study Area has grown to include nearly an 11-mile stretch of the Lower Willamette River extending from River Mile (RM) 1 to RM 11.8, DEQ's site discovery and site assessment efforts have expanded with it. In the summer of 2008, DEQ began implementation of source control efforts on the east bank of the Willamette River between RM 11 and 11.8. This effort will involve source control evaluations at several upland sites and stormwater sampling at several municipal outfalls.

2.2 Downtown Portland Willamette River Sediment Investigation

DEQ is working with the City of Portland and other partners to investigate sediment quality in the Willamette River upstream of the Portland Harbor in downtown Portland. The purpose of the investigation to supplement the existing limited sediment quality data. The investigation collected surface sediment and/or cores samples from nearly 80 locations. Samples were analyzed for the wide variety of contaminants.

Investigation results will be used to help assess area-wide sediment conditions and the potential threat of recontamination downtown reach sediment poses to Portland Harbor, and identification of sources of contamination for sediment.

The field work for the downtown reach sediment investigation was completed in June 2008. A data summary report is expected in September 2008. DEQ will evaluate the summary report and recommend the next steps as appropriate to address potential hot spots of contamination and ongoing sources.

3.0 Evaluating Potential Sources of Contamination to the River

DEQ is investigating or directing source control work at over 60 upland sites in Portland Harbor. Preliminary investigation activities at these sites are designed to determine whether the site is a potential or ongoing source of contamination to the river. These investigations, or "source control evaluations," consider all potential, current and historic contaminant sources and pathways for the contaminants to migrate to the river. Potential pathways include:

- Direct discharges – Pollutants from commercial, industrial, private or municipal outfalls are being discharged directly to the Portland Harbor Superfund Site. Many of these discharges are permitted (general or individual permits) under the Clean Water Act National Pollutant

Discharge Elimination System (NPDES). Permitted discharges include industrial wastes, stormwater runoff, and combined sewer overflows (CSOs)[4].

- Groundwater – Contaminated groundwater may enter the river directly via discharge through sediments, bank seeps, or it may infiltrate into storm drains/pipes, ditches or creeks that discharge to the river. Contaminant migration may occur as non-aqueous phase liquids (NAPLs) or as chemicals dissolved in the groundwater itself.
- Stormwater – Contaminants may be carried to the river by water that runs off a site into storm drains after it rains, delivered to the river by stormwater pipes (including permitted and unpermitted stormwater discharges).
- Overland transport/sheet flow – The uncontrolled flow of water from a site to the river and the transport of other materials from a site may deliver contaminants to the river.
- Bank erosion/leaching – River bank soil, contaminated fill, waste piles, landfills and surface impoundments may release contaminants directly to the river through erosion, via soil erosion to stormwater, or by leaching to groundwater.
- Overwater activities – Contaminants from overwater activities (e.g., sandblasting, painting, unloading, maintenance, repair and operations) at riverside docks, wharves, or piers; discharges from vessels (e.g., gray, bulge, ballast waters); full releases; and spills may affect the river.

These potential contaminant migration pathways are evaluated for each site and upland contaminant concentrations are screened against conservative screening level values (SLVs) protective of human health and the environment. Sites that are identified as current or potential sources of pollution to the river are characterized and prioritized. Based on the resulting priority, either further source control evaluation is completed or source control measures are initiated.

Table 1 provides a summary of confirmed and suspected upland sources of contamination to the river that DEQ is either actively working on or has finished source control work on by issuing a final source control decision. Table 1 also provides the basis for the determination that a site is a source of contamination to the river, the status of and schedule for source control evaluation, and the priority of the site for source control. The table includes the priority of each contaminant migration pathway for each site, as well as the overall priority of the site based on the pathway priorities.

High priority sites are identified in the table based on existing site information, and subsequent Milestone Reports will identify any new high priority sites as new information becomes available. Source control is expected to move forward at high priority sites without delay.

4.0 Taking Measures to Control Sources and Making Source Control Decisions

[4] CSO events are untreated discharges of combined stormwater, sanitary sewage from residential, commercial, and industrial sources that overflow from the sewer system into the river during heavy rainfall periods when the amount of stormwater and sewage exceeds the capacity of the collection system.

DEQ determines the need for source control measures at each upland site, in consultation with EPA, based on the completeness of contaminant migration pathways, exceedances of SLV, and other factors as appropriate. See p. 3-1 through 3-6 of the JSCS for more information about SLVs, and p. 4-1 through 4-10 of the JSCS for more information about the source control decision process.

4.1 Types of source control measures

Upland source control is an iterative process, where early steps may be revisited and conclusions refined by information gathered later in the process. A combination of tools may be used to control a source, including but not limited to the following.

- Technical assistance – Technical assistance, often provided during inspections, provides technical information designed to help individual businesses bring their facilities into compliance with environmental regulations. DEQ's Hazardous Waste Program has recently provided technical assistance to facilities within the Portland Harbor Superfund Site area.
- Cleaning-up contaminated upland areas – Cleanup work addresses contaminated soil, groundwater, stormwater and other sources and focuses on reducing or eliminating contaminant migration to the river. Common source control measures include removing highly contaminated soil areas, stabilizing or capping contaminated bank areas, treating or containing contaminated groundwater, and extracting contaminated sediment from storm sewer systems. Source control measures vary from site to site.
- Source control of active discharges – Tools to control active discharges include best management practices (BMPs), industrial process changes, pollution prevention practices, and technology-based effluent controls. Compliance is achieved voluntarily or through administrative actions, including permits or enforcement.
- Source control of stormwater – Stormwater source control is complex because storm drain systems capture discharges from many different sources (e.g., land use activities, runoff from contaminated sites, and infiltration of contaminated groundwater into the storm drain system). Stormwater regulation also involves state and local agencies implementing MS4 and 1200Z general stormwater permits. Because of this complexity, all of the tools described above are useful for stormwater source control and will be used as appropriate.
- Administrative actions and enforcement – Administrative actions include licenses, permits, deed restrictions, requirements for site development plans, and enforcement actions, which may be necessary when administrative actions are violated. Agencies rarely take enforcement actions without first conducting an inspection and documenting findings, requested changes, warnings and offers of technical assistance. When enforcement actions are warranted, they are usually taken in escalating order, starting with notices of violation, moving to enforcement or compliance orders requiring specific changes by a set date, and ending with monetary penalties, court action or DEQ's takeover of investigation or cleanup work. Formal cleanup actions performed under an order or decree use oversight and enforcement to ensure that appropriate actions are taken in a timely manner.

Table 1 summarizes source control decisions conducted at upland sites, the basis for the determination that upland source control measures are necessary, a summary of the selected source control measure(s), and a schedule for implementing the source control measure(s). Figure 1-a-c displays sites listed in Table 1.

4.2 DEQ coordination with EPA and partners on source control decisions

As the Lead Agency for identifying and controlling sources of upland contamination threatening the river in Portland Harbor, DEQ coordinates with EPA and our government partners on source control work. This includes documenting, tracking and coordinating source control efforts as described in Sections 2.5 and 7 of the JSCS.

DEQ will provide EPA and our partners an opportunity to review and comment on source control decisions prior to being finalized. These decisions typically fall into the following three categories.

- DEQ determined that a site is not a current or future significant source of contaminants to Portland Harbor and that no source control measures are required.
- DEQ selected the source control measures for a site.
- DEQ concluded that source control at a site is complete, or in the case of systems that require operation and maintenance (e.g., hydraulic containment), that the source control action is effective.

DEQ will inform EPA and our partners of pending source control decisions and the schedule for review, and will provide copies of source control decision documentation to EPA and partners upon request. EPA and partners will have 30 days to provide comments to DEQ on source control decisions.

In addition to this regular review and comment process, some upland sites in Portland Harbor may warrant closer coordination between DEQ, EPA, and our partners for source control (e.g., the Gasco site and potential source control measures for the chlorinated solvent groundwater plume at the Siltronic site). In these instances, DEQ and EPA source control coordinators will develop project-specific coordination strategies.

4.3 Public involvement in source control decisions

DEQ Cleanup Program statutes and rules require that a public notice and comment opportunity be provided prior to DEQ's selection of a final site cleanup remedy and before DEQ determines that the cleanup is complete. For upland Portland Harbor cleanup projects, this means that DEQ issues a public notice and seeks public comments on the recommended final site cleanup strategy. Once public input is considered, DEQ's final decision is typically documented in a Record of Decision (ROD) for the site. For most sites, the upland DEQ ROD includes elements that address both source control for Portland Harbor and cleanup actions specific to areas of upland contamination that are not related to pollution in the Harbor.

Many of the source control measures implemented at upland sites are conducted prior to the selection of the final upland site-wide remedy. While public notice and comment is not required

for these "interim" removal actions under DEQ statutes and rules, DEQ typically issues a public notice and seeks public comments when the action is likely to be a substantive piece of the final site remedy, or as the DEQ project manager determines is appropriate.

DEQ does not typically seek public comments for small-scale interim source control measures and time critical actions. Project managers will, however, issue notices as appropriate to let the public know that the activity is being conducted.

5.0 Status of Ongoing and Completed Source Control Activities

Table 1 summarizes the status of ongoing source control activities; including source control evaluations (SCEs), source control decisions (SCDs), and source control measures (SCMs). Table 1 also provides information on source control activities completed to date, proposed SCM activities, and a target schedule for completion. To the extent practicable, DEQ has collected information and/or made estimates of the mass or volume of contaminants removed, contained, treated or otherwise controlled, to help demonstrate the progress of source control activities.

Table 1 also summarizes completed SCMs and provides the date that the SCM was completed, the date of EPA review and comment, and any operation and maintenance requirements associated with the SCM.

As of September 2008, the DEQ categorized 82 sites (see Table 1) into the following source control categories:

High Priority Sites- 8
Preliminary High Priority Sites- 8
Medium Priority Sites- 14
Low Priority Sites- 23
Priority "To Be Determined" Sites- 9
Sites with Source Control Decisions- 20

The status of High Priority and Preliminary High Priority sites is presented in Table 2. Eleven of the 16 High Priority sites currently have at least interim SCMs in place. Some of the more important actions in-place or anticipated at the High Priority sites include:

-**Oregon Steel Mills**- Full-scale, end-of-pipe stormwater treatment pilot in operation since October 2007. Riverbank treatment source control measure in re-design largely due to comments regarding compliance with Endangered Species Act (ESA). Source control measures anticipated to be constructed in summer 2009.

-**Premier Edible Oils**- Groundwater investigation field work supporting the SCE is largely complete. Currently waiting on PEO to submit summary report.

-**Arco/BP**- Part of the significant riverbank & near-shore source control action was completed in fall 2007, the remainder of the work is expected to be completed in fall 2008.

-**Gasco**- Focused Feasibility Study (FFS) submitted October 2007 for groundwater NAPL SCMs. DEQ selected a vertical barrier wall/extraction well SCM. Proposed SCM currently in design.

-**Siltronics**- FFS submitted October 2007 recommending enhanced in-situ bioremediation (EIB) SCM for TCE groundwater plume. DEQ selected EIB to be applied in the release area. Proposed SCM currently in design.

-**Arkema**- RP is preparing a revised FFS for a vertical barrier wall and hydraulic containment SCM. The RP is also conducting a number of studies on extracted groundwater that will need to be managed as part of the hydraulic containment system. DEQ is currently reviewing a draft FFS for stormwater SCMs.

-**Rhone-Poulenc**- Rhone Poulenc submitted comprehensive Source Control Evaluation report in early-2008 and is currently revising document. DEQ is evaluating interim SCMs to extract and treat contaminated groundwater threatening the river.

New to the December 2006 Milestone Report, DEQ developed five specific goals for our source control efforts. These goals will track DEQ source control efforts to achieve the overarching goal of source control: to identify, evaluate and control sources of contamination that may affect the Willamette River in a manner that is consistent with the objectives and schedule for the Portland Harbor RI/FS.

Goals and Status for High Priority Sites

Goal 1- Source Control Evaluations (SCE) completed at all High Priority sites by 1/1/08.

Goal 1 Status as of 9/08

-2 of 16 SCEs completed

-3 of 16 SCEs to be completed in late 2008

-2 of 16 SCEs to be completed in early 2009

-Of the 9 remaining High Priority sites (16 minus 7) that are either not completed or are not on schedule to be completed by early 2009..., stormwater is the only outstanding pathway to be completed in 5 of the 9 sites.

Goal 2- SCMs selected at all High Priority sites by 7/1/08.

Goal 2 Status as of 9/08

-Interim or final SCMs have been selected and have been implemented at 11 of 16 sites. These sites include: 1) Oregon Steel Mills (stormwater pathway), 2) Schnitzer Steel (stormwater pathway), 3) Kinder Morgan Linnton (groundwater pathway), 4) Exxon/Mobil (groundwater pathway), 5) Arco/BP (groundwater pathway), 6) MarCom South (overland runoff pathway), 7) Siltronic (groundwater pathway), 8) Rhone Poulenc (groundwater pathway), 9) Arkema (groundwater pathway), 10) Willbridge (groundwater pathway), 11) Gunderson (groundwater pathway).

-Selection of SCMs at other High Priority sites is anticipated over the next 6-12 months. For instance, DEQ selected a significant SCM at the Gasco site in March 2008. NW Natural is currently completing field work to support the detailed design of this SCM, a vertical barrier wall/groundwater extraction well system. Two other examples of significant source control expected to be completed in the next 6-12 months includes work at Arco/BP (riverbank, beach, and nearshore sediment removal) and Oregon Steel Mills (riverbank treatment).

Goal 3- SCMs constructed and effectively operating at all High Priority sites by 1/1/10.

Goal 3 Status as of 9/08

-4 of 16 sites have effective groundwater SCMs operating. These 4 sites include: 1) Exxon/Mobil, 2) Gunderson, 3) Willbridge, and 4) Arco/BP.

Goals and Status for Medium and Low Priority Sites

Goal 4- SCE completed at all Medium and Low Priority sites by 1/1/09

Goal 4 Status as of /08

-3 of the 14 Medium Priority sites and 1 of the 23 Low Priority sites have completed SCEs. All the sites are on schedule to be completed in 2009. Stormwater is the only outstanding pathway to be completed for the SCE in 1 of the Medium Priority sites and 8 of the Low Priority sites.

-Interim SCM have been implemented at 19 of 37 Low and Medium Priority sites.

Goals and Status for Priority "To Be Determined (TBD)" Sites

Goal 5- Completed prioritization at all TBD sites by 1/1/08.

Goal 5 Status as of 9/08

-2 of the 9 sites are EPA-lead sites (Vanwaters-&-Rogers & US Moorings).

-7 non-EPA-lead TBD sites are left to be prioritized and they are scheduled to be prioritized in 2009.

6.0 Issues Encountered in Source Control Work

This section summarizes issues affecting DEQ's complete source control work. This section also presents the steps DEQ is taking to resolve the issues and complete source control work at those sites.

Issue 1: Moving certain projects through the source control process

Certain DEQ Portland Harbor cleanup projects are not proceeding through the source control process at an acceptable pace. Source control activities at these sites need to be accelerated in order to identify, evaluate and control upland contaminant sources before the Portland Harbor Record of Decision (ROD).

To resolve this issue, DEQ first identified these sites and then worked to accelerate their schedules for source control efforts. DEQ identified following sites in the March 2006 Milestone Report, and these sites remain a high priority for accelerated source control. Below is a summary of the status of each site.

- **Crawford Street**

  Problem: Crawford Street completed a limited removal of black sands (sand blast grit) in 2001 from a portion of their beach and at the top of the bank (which was the source of the black sands in the beach). Crawford Street also completed a groundwater investigation. Crawford Street needs to complete their source control evaluation by investigating the stormwater pathway at the site.

  Path to resolving: DEQ directed Crawford Street to complete a stormwater evaluation in the 2006/2007 water year.

Progress made since January 2008 Milestone Report: Crawford Street conducted a stormwater screening per the JSCS during the 2007-2008 water year. DEQ is currently waiting for the results from that stormwater sampling effort. With Crawford Street's implementation of the needed work, the major issues have been resolved and the Crawford Street site will be dropped from this list of "Issue 1" sites in the next Milestone Report.

- **Schnitzer Steel**
  Problem: The responsible party (RP) implemented a number of stormwater upgrades and best management practices over the last several years, but site characterization/source control evaluation needs to be completed. Furthermore, recent LWG stormwater sampling at the Schnitzer Steel area indicates high levels of PCBs in stormwater. Schnitzer submitted a draft RI report, but the stormwater pathway still needs to be evaluated.
  Path to resolving: Schnitzer needs to complete a full Source Control Evaluation for their property. Note that we separated the Schnitzer Steel site from the Schnitzer Burgard Industrial Park site in this Milestone Report.
  Progress made since January 2008 Milestone Report: Schnitzer submitted a draft Source Control Evaluation report in 4/07. Additional SCE is needed. DEQ expects a comprehensive SCE to be submitted in 4th quarter 2009.

- **GS Roofing**
  Problem: The DEQ project manger overseeing work at GS Roofing left DEQ in 2007, and the vacant position was not filled in a timely manner due to agency budget constraints. This has affected the progress of source control work at the site.
  Path to Resolving: DEQ made GS Roofing site a priority for staffing and accelerated source control work. GS Roofing conducted independent investigations of the facility. The next step in the project is for DEQ to review this information and provide direction regarding what additional work is required and a schedule for this work.
  Progress made since January 2008 Milestone Report: DEQ recently assigned a new project team to the GS Roofing site, however, little progress has been made on the site due to DEQ work load issues.

Issue 2: Completing source control at the Gasco site

NW Natural's Gasco site (which includes NW Natural's manufactured gas plant contamination on the Siltronic site) is a High Priority site for upland source control. The distribution and magnitude of upland contamination at the Gasco site is extensive and very significant. DEQ directed NW Natural to collect data to support the selection, design, installation and operation of source control measures, rather than conducting further source control evaluation. NW Natural and DEQ agreed to a schedule for a phased approach to design and implementation of source control measures by 2008. While the actual construction of the SCM has been delayed until 2009, NW Natural continues to move forward with recent work that supports source control planning and design along the shoreline of the Gasco and Siltronic properties, including the following:

- NW Natural submitted a draft Groundwater/NAPL Focused Feasibility Study (FFS) for upland source control in fall 2007. DEQ approved the FFS in concept in 3/08. DEQ selected a combination vertical barrier wall and groundwater extraction system in Segment 1, the main portion of the manufactured gas plant (MGP) waste.

- NW Natural is currently nearly ready to implement a Vibration Analysis Study which will assess potential impacts to the neighboring Siltronic's operations from different source control construction methods and configurations. DEQ also directed NW Natural to complete a DNAPL Mobility Study in the source control area. Both studies will be used in the design of the combination well/wall SCM.
- Evaluation of groundwater hydraulic containment and groundwater treatment designs.
- Implementation of a DEQ-approved work plan to complete the characterization of impacts associated with the historical manufactured gas plant activities on the Siltronic property.

Issue 3: DEQ staff resource limitations

Limited staff resources continue to affect DEQ's ability to conduct and complete source control work in Portland Harbor. Over the last 12 months DEQ hired three new project managers to work on Portland Harbor projects and other projects. We also very recently hired a DEQ Cleanup Program GIS Coordinator to help with both state-wide and Portland Harbor needs. We also expect to hire a 4th Portland Harbor project manager in 4th quarter 2008.

DEQ is continually looking at staff work load and developing priorities to address the most important work. DEQ will continue Portland Harbor source control efforts focusing on the most significant and potentially significant upland sources, and explore opportunities to increase staffing levels when possible.

Issue 4: Stormwater evaluation and control

Stormwater evaluations are either underway, completed, or not needed at approximately 90 Portland Harbor sites, and approximately 25 additional sites are expected to begin stormwater evaluations within the next year. This includes several upland sites and City outfalls in the vicinity of RM 11 on the east side of the river. This area came to DEQ's attention as a result of Round 3 sediment sampling efforts that detected elevated PCB concentrations in river sediment in this area. In addition, DEQ is working with the City on various site discovery and source identification efforts to determine whether there may be additional sites in the harbor that also warrant some level of stormwater evaluation and control. At present, DEQ identified approximately 10 sites that will be given further consideration.

To support our stormwater evaluation efforts, DEQ drafted and is the process of finalizing a guidance document that provides direction to DEQ project managers on making source control decisions for the stormwater pathway at cleanup sites. The guidance also includes appendices aimed at providing responsible parties with clear instructions for conducting the evaluation in a manner that will meet DEQ's expectations. DEQ intends to finalize this stormwater guidance in fall 2008. Until then, the draft guidance can be found at:

http://www.deq.state.or.us/pubs/reports.htm#Review

DEQ is also working on a document that describes the overall strategy for addressing stormwater in Portland Harbor. DEQ met with EPA in January and March 2008 to present the strategy's framework and discuss how preliminary modeling results support the strategy. There are plans to continue this conversation in the future. DEQ hopes to receive EPA's support for the strategy

so that DEQ and Portland Harbor responsible parties (RPs) can continue to implement stormwater source control with confidence.

DEQ anticipates that the strategy will include an evaluation of existing stormwater permits (e.g., NPDES 1200Z general stormwater permits and NPDES municipal stormwater permits) to determine whether it is appropriate to establish a new general permit for the Portland Harbor area similar to the 1200COLS permit for the Columbia Slough area. Such a permit would be designed to address specific risks from stormwater in the Portland Harbor area. DEQ's Cleanup Program is discussing this issue with our Water Quality Program to determine how an evaluation could be conducted and, if necessary, how the two programs would work together to adopt new or revised permits.

Finally, DEQ is working with EPA and other partners to reach agreement on the methodology for developing land-use loading rates using the stormwater data collected by the LWG over the past two years. The loading rates are intended to be used in the LWG's modeling efforts for the Portland Harbor risk assessment to help understand the impacts of the stormwater and other contaminant sources on sediment, surface water, and fish tissue.

7.0 Summary

DEQ is making significant progress in controlling sources of contamination to the lower Willamette River in Portland Harbor, and is coordinating resources of its Cleanup, Hazardous and Solid Waste, Water Quality and Spills Programs to achieve upland source control objectives by the expected time of the Portland Harbor Record of Decision or shortly after. To date, DEQ has identified more than 80 upland sites that may be potential sources of contaminants in Portland Harbor, and most of these sites have been prioritized for additional investigation or source control. Additionally, DEQ evaluated a number of sites in our site discovery process throughout the Portland Harbor project and concluded these sites do not threaten the river.

As of September 2008, the DEQ categorized 82 sites (see Table 1) into the following source control categories:

High Priority Sites- 8
Preliminary High Priority Sites- 8
Medium Priority Sites- 14
Low Priority Sites- 23
Priority To Be Determined Sites- 9
Sites with Source Control Decisions- 20

DEQ will submit a Milestone Report to EPA twice a year, with the next Milestone Report scheduled for March 2009, and update Table 1 and Table 2 with the current status of source control work at all upland sites. For more information about the Milestone Report or DEQ's source control work generally, please contact Jim Anderson, DEQ Portland Harbor Project Manager, at (503) 229-6825, or anderson.jim@deq.state.or.us.

8.0 Obtaining Additional Information on Upland Source Control Work

For more information on DEQ's source control work at any of the sites listed in Table 1, see DEQ's Portland Harbor web page (http://www.deq.state.or.us/lq/cu/nwr/PortlandHarbor/index.htm) and click on "Upland Sites map" in the right hand corner. This link provides a map showing all Portland Harbor upland sites and summary reports of the status of source control work. Just open the map and click on the site you are interested in to connect to DEQ's Environmental Cleanup Site Information (ESCI) database, which houses current information on work at each site.

Alternatively, contact the DEQ project manager (PM) that is leading work on the site you are interested in. Contact information for each DEQ PM is listed on the last page of this report.

For more information on the status work on the Portland Harbor Superfund Site, see EPA's Portland Harbor web page (http://yosemite.epa.gov/r10/cleanup.nsf/sites/ptldharbor).

9.0 Information about Table 1: Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

The purpose of Table 1, entitled Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor, is to track and share information on the status of DEQ's efforts to evaluate and control sources of pollution to the Willamette River in Portland Harbor. The table provides information on each upland site that DEQ is working on in the Harbor, including the status of evaluations to determine whether source control is needed, the progress of source control measures, and the status of source control decisions and EPA review. Below is some helpful information for interpreting the table, including definitions for key terms and acronyms.

Site Information and Project Status

The first columns of Table 1 provide basic background information on each site, including:

- the name of the site,
- the site's reference number for DEQ's Environmental Cleanup Site Information (ESCI) database,
- the location of the site (river mile and address),
- the DEQ project manager (PM) that is leading source control work,
- the type of agreement DEQ is using to direct cleanup activities at the site (i.e., Intergovernmental Agreement, Portland Harbor Agreement, Unilateral Order, etc.), and
- the status of work occurring at the site (i.e., Preliminary Assessment, Remedial Investigation, completed Source Control Decision, Remedial Design/Remedial Action, etc.).

Sites are listed in Table 1 based on their position alongside the Willamette River, or the "River Mile" associated with their location. The River Mile indicates distance of the site from the Willamette River's confluence with the Columbia River. Sites associated with a lower river mile occur downstream of sites with a higher river mile.

Sites listed in Table 1 are those in Portland Harbor at which DEQ is actively overseeing upland investigation or source control actions, or for which source control decisions have been made. DEQ updates the site information in ECSI when a Strategy Recommendation is made, but a site is not added to Table 1 until active oversight of the project is provided by DEQ.

Source Control Evaluation

The Source Control Evaluation (SCE) columns in Table 1 provide information on the status of DEQ's work to evaluate the need for source control measures, including the status of SCE for each potential pathway, the schedule for completing SCE, the basis for determining whether source control measures are needed, and the status of EPA review.

Potential pathways
Six standard pathways represent the major potential pathways that contaminants could follow to reach the river from an upland site. These pathways include:

- overland transport/sheet flow – the uncontrolled flow of water and other material to the river from a site
- back erosion – erosion of material within the sloping bank areas of the site to the river
- groundwater – groundwater plumes or discharges to the river via seeps or through preferential pathways
- stormwater – stormwater discharges to the river that originate from a pipe or stormwater system, including unpermitted stormwater discharges and discharges under a DEQ general stormwater permit
- overwater activities – the storage or use of hazardous substances over the water (i.e., storage tanks on docks, permanent work activities conducted over water), that if released would be a potential current or future source of contamination to the river; pipelines and other conveyance systems are not considered in this category, releases from these types of systems are reported to the Oregon Emergency Response System (OERS) system for clean up
- other – may include permitted wastewater discharges, individually permitted stormwater discharges, air deposition or other pathways

Each of these standard pathways appears for each site in Table 1 to track SCE work on a pathway-specific basis.

Basis for determining the need for source control
DEQ evaluates each of the pathways listed above to determine the need for source control measures. DEQ makes this determination based on: (1) whether contaminants are present and whether the pathway is capable of carrying them to the river (if it is, the pathway is called "complete"); and if a complete pathway exists, (2) whether it is carrying contaminants to the river at concentrations that exceed the Screening Level Values (SLVs) provided in the Joint Source Control Strategy (JSCS)[5].

Three general examples are provided below.

[5] See p. 3-1 through 3-6 of the JSCS for more information about SLVs.

- Example 1: Initial investigations of a site that is adjacent to the river indicate that bank soils have the potential to erode and carrying contaminants into the river. DEQ oversees a SCE to determine whether contaminants are in fact present in the bank soils and whether the eroded bank soils are carrying or could carry those contaminants into the river. The SCE concludes that contaminants are present in the bank soils and the soils are carrying contaminants into the river; the pathway is deemed "complete." The SCE then determines whether the bank soils are carrying or could carry contaminants to the river at concentrations that exceed the SLVs in the JSCS. If they are or could carry contaminants to the river at concentrations exceeding SLVs, DEQ determines that source control measures maybe needed and assigns a priority of high or medium to the pathway based on the degree of SLV exceedance (see "Priority levels for each pathway and site" below for more information on the priority levels). If it is a high priority, then the RP should move forward aggressively evaluating, designing, and implementing SCMs. If it is medium priority, then the RP should use the weight-of-evidence approach to determine if further SCE is needed or if SCMs are needed.
- Example 2: Initial investigations of a site adjacent to the river indicate that groundwater has the potential to migrate toward the river and carry contaminants. DEQ oversees a SCE to determine whether contaminants are present in the groundwater and whether the groundwater is carrying or could carry those contaminants into the river. The SCE concludes that groundwater is or could carry contaminants into the river, but only at concentrations significantly below the SLVs listed in the JSCS. DEQ determines that the pathway is "complete," but no source control actions are needed because SLVs are not exceeded.
- Example 3: Initial investigations of a site near (but not adjacent to) the river indicate that stormwater has the potential to migrate toward the river and carry contaminants. DEQ oversees a SCE to determine whether stormwater is in fact migrating to the river and whether it is or could carry contaminants to the river. The SCE concludes that stormwater is actually not reaching the river and could not reach the river because it is diverted to a stormwater treatment system. DEQ determines that the pathway is "not complete" and no source control actions are needed.

Definition of "Insignificant pathway; no actions recommended"
The term "insignificant pathway; no actions recommended," is used in Table 1 when (1) the pathway is complete, and (2) contaminant concentrations are near or below SLVs at a point of compliance (e.g., river bank monitoring wells) and are not anticipated to increase.

Use of "N/A" for the pathways
"N/A" is used in Table 1 to indicate that the particular pathway does not exist at the site. For example, for an upland site that is set back from the river (i.e., not adjacent to the river's edge) N/A would indicate that the overland transport/sheet flow, overwater activities, and bank erosion pathways do not exist at the site. For a site that is adjacent to the river, but where a concrete seawall lines the river bank, N/A would indicate that the pathway bank erosion does not exist at the site.

Priority levels for each pathway and site
Each pathway evaluated at each site is given a priority level for source control upon completion of the SCE, or when adequate information exists to determine the pathway's priority. Pathways

are prioritized based on their ability to carry contaminants from upland areas to the river at concentrations that exceed SLVs. Each site is then given a priority level based on the highest priority of the pathways. For example, if a site has two low priority pathways and one high priority pathway, the site is determined to be a high priority for source control. Definitions for high, medium and low priority determinations follow.

- High – High priority pathways and sites are those where a complete contaminant migration pathway exists and the upland source is significantly impacting the river or poses a significant and imminent threat to the river based on initial evaluation of key source control prioritization factors (listed on p. 4-3 of the JSCS). A primary consideration is that one or more media (soil, groundwater or stormwater) significantly exceed applicable SLVs at the point of discharge to the river (e.g., water at the end of a discharge pipe or soil or material at the riverbank) or the most reliable and cost-effective data point (e.g., groundwater measured at the shoreline), or where a bioaccumulative chemical is detected at concentrations significantly above the SLV. In addition, if an upland source is violating DEQ narrative water quality criteria for the Willamette River, the site may be considered a high priority. High priority sites are expected to move forward with aggressive source control measures without delay or be subject to enforcement action.
- Medium – Medium priority pathways and sites are those where a complete contaminant migration pathway exists and the upland source is impacting the river or poses a significant and/or imminent threat to the river based on an initial evaluation of key source control prioritization factors (listed on p. 4-3 of the JSCS). A primary consideration is that one or more media exceed applicable SLVs, but not significantly, at the point of discharge to the river, or where a bioaccumulative chemical is detected at concentrations above the SLV. Although exceedance of SLVs does not necessarily indicate that a site poses a significant and/or imminent threat or needs to immediately implement source control measures, it does indicate that the site may pose a threat to human health or the environment and that additional evaluation may be needed to determine if source control measures are required to prevent, minimize or mitigate the migration of hazardous substances to the river. If the site exceeds one or more SLVs, the need for further characterization or for implementation of source control measures will be based on a site-specific weight-of-evidence determination. Medium priority sites are expected to perform a weight-of-evidence evaluation to determine if source control measures are required (see p. 4-5 of the JSCS for more information on the weight-of-evidence evaluation).
- Low – Low priority pathways and sites are those where upland data indicate, based on an initial evaluation of key source control prioritization factors (listed on p. 4-3 JSCS), that the site likely poses a low threat to the river (e.g., concentrations are near or below SLVs) or where DEQ, in consultation with EPA, may issue an upland "No Further Action" (NFA) determination or lower the State's priority of the site for further upland investigation or remedial action under DEQ's cleanup authority. Source control measures will not be required at low priority sites unless determined necessary by the results of the Portland Harbor RIFS or ROD.
- p High – DEQ's preliminary determination is that this is likely a high priority pathway or site based on available information. A final determination of pathway or site priority will be made upon completion of the SCE.

- p Med – DEQ's preliminary determination is that this is likely a medium priority pathway or site based on available information. A final determination of pathway or site priority will be made upon completion of the SCE.
- p Low – DEQ's preliminary determination is that this is likely a low priority pathway or site based on available information. A final determination of pathway or site priority will be made upon completion of the SCE.

Source Control Decisions and Status of Source Control Measures

The Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs) columns in Table 1 provide information on actions taken or needed to control sources of contamination to the river, including the selected SCMs for each pathway, status of SCM implementation, status of EPA review, and ongoing operation and maintenance requirements.

For many sites listed in Table 1, boxes for information on SCDs and SCMs will be blank because source control work at those sites is still in the evaluation (SCE) phase. Other sites may be in the process of implementing SCMs, and still others may have completed all source control work. For those sites that have completed upland source control and SCMs have been determined to be effective, shading ▮ indicates that work is finished at this point in time. Upon completion of the Portland Harbor in-water RIFS, however, DEQ will reevaluate all source control work to ensure that it adequate controlled contaminants to the final cleanup levels developed for the Harbor.

9.1 Acronyms and abbreviations

Agr	Agreement
AOC	Administrative Order on Consent
AS/SVE	Air sparge/soil vapor extraction – a Source Control Measure used to remove volatile contaminants from groundwater; often combined with treatment measures
AST	Above ground Storage Tank
AWQC	Ambient Water Quality Criteria
BMPs	Best Management Practices
BRA	Baseline Risk Assessment
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
COI	Contaminant of Interest – chemicals present in Portland Harbor at levels that could threaten human health and the environment
DEQ	Oregon Department of Environmental Quality
ECSI	DEQ's Environmental Cleanup Site Information database
EPA	Environmental Protection Agency
FS	Feasibility Study – a phase of the cleanup process; evaluating cleanup alternatives after the Remedial Investigation has been completed
GW or gw	Groundwater
ICP	Independent Cleanup Pathway
IGA	Inter-Governmental Agreement
IRAM	Interim Remedial Action Measure
HVOCs	Halogenated Volatile Organic Compounds

JSCS	Joint Source Control Strategy – issued by DEQ and EPA in December 2005[6]
LNAPL	Low density Non-Aqueous Phase Liquid
N/A	Not Applicable – used in Table 1 to indicate that the particular pathway does not exist at the site
NAPL	Non-Aqueous Phase Liquid
N&E	Nature and extent of the contamination at the site
NFA	No Further Action – a DEQ notice to a Responsible Party declaring that no further cleanup action is needed at the site
OF	Outfall
p&t	Pump & Treat system – a Source Control Measure used to remove or contain and treat contaminated groundwater
PA	Preliminary Assessment – an early assessment stage of the cleanup process
PCB	Polychlorinated Biphenyls
PH	Portland Harbor
PH Agr	Portland Harbor Agreement – a formal agreement to conduct the remedial investigation and source control work
PH Ltr Agr	Portland Harbor Letter Agreement – an initial agreement to conduct limited investigation and cleanup activities and cover DEQ's oversight costs
PM	DEQ Project Manager leading cleanup work at the site
PPA	Prospective Purchaser Agreement – a tool for negotiating and agreeing upon potential liability for prospective purchasers of sites
PRP	Potentially Responsible Party
RD/RA	Remedial Design/Remedial Action – a phase of the cleanup process that occurs after the Record of Decision; designing and implementing the cleanup action
RI	Remedial Investigation – a phase of the cleanup process; investigating the nature and extent of contamination and understanding the potential risks posed by the contaminants to human health and the environment
RI/FS	Remedial Investigation/Feasibility Study
RP	Responsible Party
SC	Source Control
SCD	Source Control Decision
SCE	Source Control Evaluation
SCM	Source Control Measure
SLV	Screening Level Value – a contaminant-specific level established in the JSCS (see JSCS Table 3.1) that is used to screen upland pathways and sites to identify potential threats to human health and the environment.
SOW	Scope of Work
SVE	Soil Vapor Extraction – a Source Control Measure used to remove volatile contaminants from subsurface soils; often combined with soil vapor treatment
TCA	Trichloroethane
UIC	Underground Injection Control system
UST	Underground Storage Tank
VCP	Voluntary Cleanup Program
VOCs	Volatile Organic Compounds

[6] The JSCS is available on DEQ's web site at (http://www.deq.state.or.us/lq/cu/nwr/PortlandHarbor/index.htm); click "Joint Source Control Strategy" on the left side bar.

WO	Waiting on
XPA	Expanded Preliminary Assessment – an early assessment stage of the cleanup process

9.2 Contact information for DEQ Project Managers

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Table 1: DEQ Milestone Report
Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

Note: Sites in this table are listed in order of their position alongside the Willamette River, or the "River Mile" associated with their location; the River Mile indicates distance from the Willamette River's confluence with the Columbia River.

Confirmed or suspected sources of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Terminal 5	1686	1.5 E	15540, 15550, & 15560 N Lombard	Tom Gainer	IGA	XPA	08/20/08	Overland Transport/Sheet Flow	N/A	NA	N/A	N/A	none	Low	N/A	N/A	NA	NA	NA	NA	NA	NA	NA	NA
Terminal 5	1686	1.5 E	15540, 15550, & 15560 N Lombard	Tom Gainer	IGA	XPA	08/20/08	Bank Erosion	N/A	NA	N/A	N/A	none		N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA
Terminal 5	1686	1.5 E	15540, 15550, & 15560 N Lombard	Tom Gainer	IGA	XPA	08/20/08	Groundwater	Ongoing	Ready to NFA	winter 2008	Insignificant pathway; no actions recommended	Low		SCE submitted to EPA 6/07 - EPA comments received 6/07									
Terminal 5	1686	1.5 E	15540, 15550, & 15560 N Lombard	Tom Gainer	IGA	XPA	08/20/08	Stormwater	Ongoing	Ready to NFA	winter 2008	Insignificant pathway; no actions recommended	Low		SCE submitted to EPA 6/07 - EPA comments received 6/07									
Terminal 5	1686	1.5 E	15540, 15550, & 15560 N Lombard	Tom Gainer	IGA	XPA	08/20/08	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Terminal 5	1686	1.5 E	15540, 15550, & 15560 N Lombard	Tom Gainer	IGA	XPA	08/20/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Oregon Steel Mills	141	2.2 E	14400 N Rivergate	Jennifer Sutter	PH Agr for RI/SCM (6/00)	RI	06/12/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	no pathway; berm prevents overland transport/sheet flow	None	High	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Oregon Steel Mills	141	2.2 E	14400 N Rivergate	Jennifer Sutter	PH Agr for RI/SCM (6/00)	RI	06/25/08	Bank Erosion	Completed		SCE is part of June 06 Alternatives Evaluation	Pathway is complete	High		Deferred to Alternatives Evaluation	Design Basis document submitted July 2007; expanded alternative evaluation submitted June 2008		Evaluating preliminary EPA/Natural Resource Trustee comments						
Oregon Steel Mills	141	2.2 E	14400 N Rivergate	Jennifer Sutter	PH Agr for RI/SCM (6/00)	RI	06/12/06	Groundwater (UST & AST AOCs)	Completed			Insignificant pathway; no actions recommended	Low		SCE submitted to EPA 10/2004; no comments received		Soil removal completed at time of spill, prior to SCE						SCE submitted to EPA 10/2004; no comments received	
Oregon Steel Mills	141	2.2 E	14400 N Rivergate	Jennifer Sutter	PH Agr for RI/SCM (6/00)	RI	01/14/08	Groundwater (other AOCs)	Completed			Pathway is complete	Medium		To be determined	Waiting for in-water RI to determine background manganese levels								
Oregon Steel Mills	141	2.2 E	14400 N Rivergate	Jennifer Sutter	PH Agr for RI/SCM (6/00)	RI	06/25/08	Stormwater	Completed		August 2006	Pathway is complete	High		SCE is part of Alternatives Evaluation	alternative evaluation completed Augsut 2006	End of pipe treatment	EPA agreed with proposed approach 9/14/06	Full-scale pilot operating 10/07; pilot study report submitted May 2008;		expanding end of pipe treatment to central outfall to be completed Fall 2008			
Oregon Steel Mills	141	2.2 E	14400 N Rivergate	Jennifer Sutter	PH Agr for RI/SCM (6/00)	RI	06/12/06	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Oregon Steel Mills	141	2.2 E	14400 N Rivergate	Jennifer Sutter	PH Agr for RI/SCM (6/00)	RI	06/12/06	Other - current NPDES permitted discharge	Not Started	To be determined	No current schedule	Waiting on SCE to be completed			Waiting on SCE to be completed									
Esco Landfill Sauvie Island	4409	2.6	14444 NW Gillihan Loop	No PM Assigned	Industrial landfill disposal permit	Solid Waste Landfill Permit	08/20/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	Low		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Esco Landfill Sauvie Island	4409	2.6	14444 NW Gillihan Loop	No PM Assigned	Industrial landfill disposal permit	Solid Waste Landfill Permit	08/20/08	Bank Erosion	N/A	N/A	N/A	N/A	none			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Esco Landfill Sauvie Island	4409	2.6	14444 NW Gillihan Loop	No PM Assigned	Industrial landfill disposal permit	Solid Waste Landfill Permit	08/20/08	Groundwater	N/A	N/A	N/A	N/A	none			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Esco Landfill Sauvie Island	4409	2.6	14444 NW Gillihan Loop	No PM Assigned	Industrial landfill disposal permit	Solid Waste Landfill Permit	08/20/08	Stormwater	N/A	N/A	N/A	N/A	none			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Esco Landfill Sauvie Island	4409	2.6	14444 NW Gillihan Loop	No PM Assigned	Industrial landfill disposal permit	Solid Waste Landfill Permit	08/20/08	Overwater Activities	N/A	N/A	N/A	N/A	none			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Esco Landfill Sauvie Island	4409	2.6	14444 NW Gillihan Loop	No PM Assigned	Industrial landfill disposal permit	Solid Waste Landfill Permit	08/20/08	Other	N/A	N/A	N/A	N/A	none			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Consolidated Metco	3295	2.8 E	3940 N Rivergate	Mike Romero	PH Letter Agr for XPA	XPA	08/06/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Consolidated Metco	3295	2.8 E	3940 N Rivergate	Mike Romero	PH Letter Agr for XPA	XPA	08/06/08	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table 1: DEQ Milestone Report
Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

Confirmed or suspected sources of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Consolidated Metco	3295	2.8 E	3940 N Rivergate	Mike Romero	PH Letter Agr for XPA	XPA	08/06/08	Groundwater	Ongoing	DEQ is revisiting draft SCD	10/08	Waiting on SCE to be completed.	p Low	P Low	Waiting on SCE to be completed									
Consolidated Metco	3295	2.8 E	3940 N Rivergate	Mike Romero	PH Letter Agr for XPA	XPA	08/06/08	Stormwater	Ongoing	JSCS Prescribed Stormwater Evaluation	10/08	Waiting on SCE to be completed	p Low		Waiting on SCE to be completed									
Consolidated Metco	3295	2.8 E	3940 N Rivergate	Mike Romero	PH Letter Agr for XPA	XPA	08/06/08	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Consolidated Metco	3295	2.8 E	3940 N Rivergate	Mike Romero	PH Letter Agr for XPA	XPA	08/06/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Harborton	2353	3.2 W	NW Marina Way	Matt McClincy	PH Agr for RI/SCM (6/00)	Completed SCD	03/06/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	Low	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Harborton	2353	3.2 W	NW Marina Way	Matt McClincy	PH Agr for RI/SCM (6/00)	Completed SCD	03/06/06	Bank Erosion	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented 5/04		No SCM needed							
PGE Harborton	2353	3.2 W	NW Marina Way	Matt McClincy	PH Agr for RI/SCM (6/00)	Completed SCD	03/06/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented 5/04		No SCM needed							
PGE Harborton	2353	3.2 W	NW Marina Way	Matt McClincy	PH Agr for RI/SCM (6/00)	Completed SCD	03/06/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented 5/04		No SCM needed							
PGE Harborton	2353	3.2 W	NW Marina Way	Matt McClincy	PH Agr for RI/SCM (6/00)	Completed SCD	03/06/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Harborton	2353	3.2 W	NW Marina Way	Matt McClincy	PH Agr for RI/SCM (6/00)	Completed SCD	03/06/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Time Oil	170	3.4 E	10350 Time Oil Rd	Ken Thiessen	Pre-PH Agr. (9/96)	BRA	07/16/08	Overland Transport/Sheet Flow	Ongoing		4th Quarter 2008	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed									
Time Oil	170	3.4 E	10350 Time Oil Rd	Ken Thiessen	Pre-PH Agr. (9/96)	BRA	07/16/08	Bank Erosion	Ongoing		4th Quarter 2008	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed									
Time Oil	170	3.4 E	10350 Time Oil Rd	Ken Thiessen	Pre-PH Agr. (9/96)	BRA	07/16/08	Groundwater (Main Tank Farm Petroleum Plume)	Ongoing	In revision	4th Quarter 2008	Pathway below concentrations of concern at the river; monitoring required	p Low		Waiting on SCE to be completed		Final SCM TBD; Interim passive NAPL recovery ongoing; In-situ chem ox pilot conducted Spring 2006							
Time Oil	170	3.4 E	10350 Time Oil Rd	Ken Thiessen	Pre-PH Agr. (9/96)	BRA	07/16/08	Groundwater (Bell Terminal Petroleum Plume)	Ongoing	Waiting on SCE at Premier Edible Oil site	4th Quarter 2008	Pathway appears incomplete to the river; investigation dependent on Premier Edible Oils (ECSI # 2013)	p Low	Medium	Waiting on SCE to be completed									
Time Oil	170	3.4 E	10350 Time Oil Rd	Ken Thiessen	Pre-PH Agr. (9/96)	BRA	07/16/08	Groundwater (Penta Plume)	Completed			SCMs retard penta migration and prevent penta discharge to private stormwater *outfall*	Medium		SCE submitted to EPA.	alternatives evaluation completed	Source area pump & treat; insitu chemical oxidation (ISCO); gw to sw *intercept pump & treat*	SCM submitted to EPA May 2004; partners responded with questions	Ongoing pump & treat provides containment; 4 rounds of ISCO conducted through *Spring '07 (no ISCO* injection spring 08)	Over 32.3 million gallons of groundwater pumped and treated, ISCO has treated groundwater *insitu (no estimate of* volume)	Ongoing groundwater pump & treat; evaluation of ISCO effectiveness TBD - possible switch to *bioremediation methods*			Ongoing maintenance and monitoring of pump & treat system
Time Oil	170	3.4 E	10350 Time Oil Rd	Ken Thiessen	Pre-PH Agr. (9/96)	BRA	07/16/08	Stormwater	Ongoing	Source Control Evaluation report submitted 6/06; additional stormwater data required	4th Quarter 2008 to complete stormwater evaluation	Pathway appears insignificant (see above re:gw penta plume)	p Low		Waiting on SCE to be completed									
Time Oil	170	3.4 E	10350 Time Oil Rd	Ken Thiessen	Pre-PH Agr. (9/96)	BRA	07/16/08	Overwater Activities	N/A	N/A	N/A	No known current sources (no spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Time Oil	170	3.4 E	10350 Time Oil Rd	Ken Thiessen	Pre-PH Agr. (9/96)	BRA	07/16/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
City of Portland Outfalls	various	3.5 to 9.2	various	Karen Tarnow	IGA for RI SCM (8/03)	RI	07/15/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
City of Portland Outfalls	various	3.5 to 9.2	various	Karen Tarnow	IGA for RI SCM (8/03)	RI	07/15/08	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
City of Portland Outfalls	various	3.5 to 9.2	various	Karen Tarnow	IGA for RI SCM (8/03)	RI	07/15/08	Groundwater	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
City of Portland Outfalls	various	3.5 to 9.2	various	Karen Tarnow	IGA for RI SCM (8/03)	RI	07/15/08	Stormwater	Ongoing	Complete outfall basin characterizations, site-specifc investigations and source control, recontamination assessment	Ongoing (corresponding to Portland Harbor ROD)	Pathway is complete	p High	p High	Waiting on SCE to be completed.		Final SCM TBD. Ongoing SW inspections, investigations of illicit discharges, identification of potential contributors to City system. Site-specific catch basin cleanouts, line cleaning, and implementation of BMPs							
City of Portland Outfalls	various	3.5 to 9.2	various	Karen Tarnow	IGA for RI SCM (8/03)	RI	07/15/08	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
City of Portland Outfalls	various	3.5 to 9.2	various	Karen Tarnow	IGA for RI SCM (8/03)	RI	07/15/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ACF Industries	794	3.6 W	12160 NW St Helens	Dan Hafley	Unilateral Order (8/00)	Remedial Action complete	11/28/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ACF Industries	794	3.6 W	12160 NW St Helens	Dan Hafley	Unilateral Order (8/00)	Remedial Action complete	11/28/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ACF Industries	794	3.6 W	12160 NW St Helens	Dan Hafley	Unilateral Order (8/00)	Remedial Action complete	11/28/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low		SCE submitted to EPA (10/04); no comments		No SCM needed						SCM submitted to EPA (10/04). No comments.	
ACF Industries	794	3.6 W	12160 NW St Helens	Dan Hafley	Unilateral Order (8/00)	Remedial Action complete	11/28/06	Stormwater	Completed			Currently insignificant pathway; stormwater pipe suspected past migration pathway	Low	Low	SCE submitted to EPA (10/04); no comments		Completed FS proposes removal of contaminated off-site soil potentially available for transport to river	SCM submitted to EPA (10/04). No comments					SCM submitted to EPA (10/04) No comments	
ACF Industries	794	3.6 W	12160 NW St Helens	Dan Hafley	Unilateral Order (8/00)	Remedial Action complete	11/28/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ACF Industries	794	3.6 W	12160 NW St Helens	Dan Hafley	Unilateral Order (8/00)	Remedial Action complete	11/28/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Premier Edible Oils	2013	3.6 E	10400 N Burgard	Ken Thiessen	PH Agr for RI/SCM (7/01)	RI	07/16/08	Overland Transport/Sheet Flow	Ongoing	Reporting for site investigation work performed Jan./Feb. 08.	to be determined	Waiting on SCE to be completed	to be determined	p High	Waiting on SCE to be completed.									
Premier Edible Oils	2013	3.6 E	10400 N Burgard	Ken Thiessen	PH Agr for RI/SCM (7/01)	RI	07/16/08	Bank Erosion	Ongoing	Additional site investigation phase Jan. 08	to be determined	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed.									
Premier Edible Oils	2013	3.6 E	10400 N Burgard	Ken Thiessen	PH Agr for RI/SCM (7/01)	RI	07/16/08	Stormwater	N/A	Stormwater evaluation post facility demolition	Fall 2008	Facility dismantled and outfalls removed	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Premier Edible Oils	2013	3.6 E	10400 N Burgard	Ken Thiessen	PH Agr for RI/SCM (7/01)	RI	07/16/08	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Premier Edible Oils	2013	3.6 E	10400 N Burgard	Ken Thiessen	PH Agr for RI/SCM (7/01)	RI	07/16/08	Groundwater (GW LNAPL -SW Corner)	Ongoing	Separate phase product thickness survey in mon. wells.	early 2009	Data evaluation of additional subsurface investigation work Jan./Feb. 08	p High		Waiting on SCE to be completed.									
Premier Edible Oils	2013	3.6 E	10400 N Burgard	Ken Thiessen	PH Agr for RI/SCM (7/01)	RI	07/16/08	Groundwater (Remaining GW Issues)	Ongoing	Addt. drilling near Time Oil/Bell Terminal. Waiting on submittal of 2008 subsurface investigation data.	to be determined	Dissolved contaminants in GW potentially discharging to river	to be determined		Waiting on SCE to be completed									
Premier Edible Oils	2013	3.6 E	10400 N Burgard	Ken Thiessen	PH Agr for RI/SCM (7/01)	RI	07/16/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Jefferson Smurfit	2371	3.7 E	9930 N Burgard	Matt McClincy	PH Letter Agr for XPA (12/00)	XPA	03/06/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Jefferson Smurfit	2371	3.7 E	9930 N Burgard	Matt McClincy	PH Letter Agr for XPA (12/00)	XPA	03/06/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Jefferson Smurfit	2371	3.7 E	9930 N Burgard	Matt McClincy	PH Letter Agr for XPA (12/00)	XPA	03/06/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low		EPA Reviewed and commented 10/20/02		No SCM needed							

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Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Jefferson Smurfit	2371	3.7 E	9930 N Burgard	Matt McClincy	PH Letter Agr for XPA (12/00)	XPA	03/06/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low	Low	EPA Reviewed and commented 10/2002		No SCM needed						
Jefferson Smurfit	2371	3.7 E	9930 N Burgard	Matt McClincy	PH Letter Agr for XPA (12/00)	XPA	03/06/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Jefferson Smurfit	2371	3.7 E	9930 N Burgard	Matt McClincy	PH Letter Agr for XPA (12/00)	XPA	03/06/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RoMar Realty of Oregon	2437	3.7 E	9333 N Time Oil	Tom Gainer	PH Ltr Agr for XPA	NFA	06/12/06	Overland Transport/Sheet Flow	Completed			Insignificant pathway; no actions recommended	Low		SCE submitted to EPA (3/06); DEQ responds 4/06									
RoMar Realty of Oregon	2437	3.7 E	9333 N Time Oil	Tom Gainer	PH Ltr Agr for XPA	NFA	06/12/06	Bank Erosion	Completed			Insignificant pathway; no actions recommended	Low		N/A									
RoMar Realty of Oregon	2437	3.7 E	9333 N Time Oil	Tom Gainer	PH Ltr Agr for XPA	NFA	06/12/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low	Low	SCE submitted to EPA (3/06); DEQ responds 4/06									
RoMar Realty of Oregon	2437	3.7 E	9333 N Time Oil	Tom Gainer	PH Ltr Agr for XPA	NFA	06/12/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low		SCE submitted to EPA (3/06); DEQ responds 4/06									
RoMar Realty of Oregon	2437	3.7 E	9333 N Time Oil	Tom Gainer	PH Ltr Agr for XPA	NFA	06/12/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RoMar Realty of Oregon	2437	3.7 E	9333 N Time Oil	Tom Gainer	PH Ltr Agr for XPA	NFA	06/12/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Owens-Corning Fiberglass (Trumbull Asp)	1036	3.8 W	11444 NW St Helens	Tom Gainer	PH Letter Agr for XPA (12/99)	XPA	12/10/07	Overland Transport/Sheet Flow	Pending EPA Review		4th Quarter 2008	Insignificant pathway; no actions recommended	p Low		SCE to be submitted to EPA 4th Quarter 2008									
Owens-Corning Fiberglass (Trumbull Asp)	1036	3.8 W	11444 NW St Helens	Tom Gainer	PH Letter Agr for XPA (12/99)	XPA	12/10/07	Bank Erosion	Pending EPA Review		4th Quarter 2008	Insignificant pathway; no actions recommended	p Low		SCE to be submitted to EPA 4th Quarter 2008									
Owens-Corning Fiberglass (Trumbull Asp)	1036	3.8 W	11444 NW St Helens	Tom Gainer	PH Letter Agr for XPA (12/99)	XPA	12/10/07	Groundwater	Completed			Insignificant pathway; no actions recommended	p Low		SCE to be submitted to EPA 4th Quarter 2008									
Owens-Corning Fiberglass (Trumbull Asp)	1036	3.8 W	11444 NW St Helens	Tom Gainer	PH Letter Agr for XPA (12/99)	XPA	12/10/07	Stormwater	Ongoing	Stormwater evaluation	4th Quarter 2008	Waiting on SCE to be completed	to be determined	P Low	SCE to be submitted to EPA 4th Quarter 2008									
Owens-Corning Fiberglass (Trumbull Asp)	1036	3.8 W	11444 NW St Helens	Tom Gainer	PH Letter Agr for XPA (12/99)	XPA	12/10/07	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Owens-Corning Fiberglass (Trumbull Asp)	1036	3.8 W	11444 NW St Helens	Tom Gainer	PH Letter Agr for XPA (12/99)	XPA	12/10/07	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Georgia Pacific Linnton	2370	3.9 W	12222 NW Marina	Tom Gainer	PH Letter Agr for XPA (10/99)	XPA	06/12/06	Overland Transport/Sheet Flow	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed in 2000 and did not provide comments		No SCM needed							
Georgia Pacific Linnton	2370	3.9 W	12222 NW Marina	Tom Gainer	PH Letter Agr for XPA (10/99)	XPA	06/12/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Georgia Pacific Linnton	2370	3.9 W	12222 NW Marina	Tom Gainer	PH Letter Agr for XPA (10/99)	XPA	06/12/06	Groundwater	Completed				Low	Low	EPA reviewed in 2000 and did not provide comments	NA	No SCM needed	NA	NA	NA	NA	NA	NA	NA
Georgia Pacific Linnton	2370	3.9 W	12222 NW Marina	Tom Gainer	PH Letter Agr for XPA (10/99)	XPA	06/12/06	Stormwater	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Georgia Pacific Linnton	2370	3.9 W	12222 NW Marina	Tom Gainer	PH Letter Agr for XPA (10/99)	XPA	06/12/06	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Georgia Pacific Linnton	2370	3.9 W	12222 NW Marina	Tom Gainer	PH Letter Agr for XPA (10/99)	XPA	06/12/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NW Pipe	138	3.9 E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (2/05)	RI	07/15/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NW Pipe	138	3.9 E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (2/05)	RI	07/15/08	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NW Pipe	138	3.9 E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (2/05)	RI	07/15/08	Groundwater	Ongoing	Apparently not a complete pathway	Fall 2009		None		Waiting on SCE to be completed									

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Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

Confirmed or suspected sources of contamination to the river																								
Site information					Project status			Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Basis for determination that source control is needed			Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
												Pathway determination	Pathway priority level	Site priority level										
NW Pipe	138	3.9 E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (2/05)	RI	07/15/08	Stormwater	Ongoing	DEQ to completed review of SCE report prepared by RP, conduct additional stormwater and RI evaluation. Work Plan due September, 2008	Fall 2009	SW suspected migration pathway	p Med	p Med	Waiting on SCE to be completed									
NW Pipe	138	3.9 E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (2/05)	RI	01/02/08	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NW Pipe	138	3.9 E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (2/05)	RI	07/15/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Linnton Oil Fire Training Grounds	1189	4 W	NW Marina Way	Tom Gainer	IGA	NFA	03/02/06	Overland Transport/Sheet Flow	Completed			Insignificant pathway; no actions recommended	Low	Low	Complete									
Linnton Oil Fire Training Grounds	1189	4 W	NW Marina Way	Tom Gainer	IGA	NFA	03/02/06	Bank Erosion	Completed			Insignificant pathway; no actions recommended	Low		Complete									
Linnton Oil Fire Training Grounds	1189	4 W	NW Marina Way	Tom Gainer	IGA	NFA	03/02/06	Groundwater	Completed			Currently no complete pathway; groundwater monitoring to confirm plume stability	Low		Complete									Annual groundwater monitoring (conditional NFA)
Linnton Oil Fire Training Grounds	1189	4 W	NW Marina Way	Tom Gainer	IGA	NFA	03/02/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low		Complete									
Linnton Oil Fire Training Grounds	1189	4 W	NW Marina Way	Tom Gainer	IGA	N/A	03/02/06	Overwater Activities	N/A	N/A	N/A	No known current sources (spills will be reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Linnton Oil Fire Training Grounds	1189	4 W	NW Marina Way	Tom Gainer	IGA	N/A	03/02/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schnitzer Burgard Industrial Park	2355	4.1E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (3/00)	RI	07/15/08	Overland Transport/Sheet Flow	Ongoing	Investigation scope of work under review	4th Qtr '09													
Schnitzer Burgard Industrial Park	2355	4.1E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (3/00)	RI	07/15/08	Bank Erosion	Ongoing	Additional sampling needed	4th Qtr '09													
Schnitzer Burgard Industrial Park	2355	4.1E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (3/00)	RI	07/15/08	Groundwater	Ongoing	Ongoing monitoring	4th Qtr '09			pHigh									
Schnitzer Burgard Industrial Park	2355	4.1E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (3/00)	RI	07/15/08	Stormwater	Ongoing	Ongoing monitoring-engineering improvements have been built, but additioanl SCE monitoring needed	4th Qtr '09													
Schnitzer Burgard Industrial Park	2355	4.1E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (3/00)	RI	07/15/08	Overwater Activities	Not Started	TBD	4th Qtr '09													
Schnitzer Burgard Industrial Park	2355	4.1E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (3/00)	RI	07/15/08	Other	N/A	N/A	4th Qtr '09													
Schnitzer Steel	2355	4.1 E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (3/00)	RI	07/15/06	Overland Transport/Sheet Flow	Ongoing	Investigation scope of work under review	4th Qtr '09	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed		Likely dock engineering improvements to capture sheet flow stormwater							
Schnitzer Steel	2355	4.1 E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (3/00)	RI	07/15/08	Bank Erosion	Ongoing	Additional sampling needed	4th Qtr '09	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed									
Schnitzer Steel	2355	4.1 E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (3/00)	RI	07/15/08	Groundwater	Ongoing	ongoing monitoring	4th Qtr '09	Waiting on SCE to be completed	p Low		Waiting on SCE to be completed									
Schnitzer Steel	2355	4.1 E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (3/00)	RI	07/15/08	Stormwater	Ongoing	ongoing monitoring - engineering improvements have been built but additional SCE monitoring needed	4th Qtr '09	Waiting on SCE to be completed	p High	p High	Waiting on SCE to be completed		RP developing & implementing BMPs for stormwater. Others yet to be determined							
Schnitzer Steel	2355	4.1 E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (3/00)	RI	07/15/08	Overwater Activities	Not Started	To be determined	4th Qtr '09	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed									
Schnitzer Steel	2355	4.1 E	12005 N Burgard	Jim Orr	PH Agr for RI/SCM (3/00)	RI	07/15/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Kinder Morgan (Aka GATX)	1096	4.2 W	11400 NW St Helens	Mike Romero	PH Agr for RI/SCM (6/00)	RI	08/06/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	p High	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Kinder Morgan (Aka GATX)	1096	4.2 W	11400 NW St Helens	Mike Romero	PH Agr for RI/SCM (6/00)	RI	08/06/08	Bank Erosion	Ongoing	To be determined	12/08	Waiting on SCE to be completed	to be determined		Waiting on SCE to be complete									
Kinder Morgan (Aka GATX)	1096	4.2 W	11400 NW St Helens	Mike Romero	PH Agr for RI/SCM (6/00)	RI	08/06/08	Groundwater	Ongoing	Complete nature & extent in RI; RP will conduct IRAM effectiveness evaluation	12/08	LNAPL seeps on shoreline and dissolve petroleum likely discharging to river	p High		Waiting on SCE to be complete		Interim LNAPL removal and groundwater pump and treat system in operation							
Kinder Morgan (Aka GATX)	1096	4.2 W	11400 NW St Helens	Mike Romero	PH Agr for RI/SCM (6/00)	RI	08/06/08	Stormwater	Ongoing	Catch basin sampling & stormwater sampling as part of SCE	12/08	Waiting on SCE to be completed	to be determined		Waiting on SCE to be complete									
Kinder Morgan (Aka GATX)	1096	4.2 W	11400 NW St Helens	Mike Romero	PH Agr for RI/SCM (6/00)	RI	08/06/08	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Kinder Morgan (Aka GATX)	1096	4.2 W	11400 NW St Helens	Mike Romero	PH Agr for RI/SCM (6/00)	RI	08/06/08	Other	Ongoing	GW treatment system & oil/water separator on NPDES - Evaluate existing data set	12/08	Waiting on SCE to be completed	p Low		Waiting on SCE to be complete									
Terminal 4 Slip 1	2356	4.3 E	11040 N Lombard	Tom Gainer	PH Agr for RI/SCE	RI	08/20/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	p Med	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Terminal 4 Slip 1	2356	4.3 E	11040 N Lombard	Tom Gainer	PH Agr for RI/SCE	RI	08/20/08	Bank Erosion	Completed	SCM necessary; coordinate with T4 Early Action	Tied to T4 Early Action schedule	Pathway is complete	High		Tied to T4 Early Action schedule	Part of T-4 Early Action Process	Cap	Selected SCMs	None		Wheeler Bay bank to be regraded and capped summer 2008			
Terminal 4 Slip 1	2356	4.3 E	11040 N Lombard	Tom Gainer	PH Agr for RI/SCE	RI	08/20/08	Groundwater	Pending EPA Review	RI data review	Fall 2008	Preliminary determination that pathway is insignificant	p Low		Waiting on SCE to be completed									
Terminal 4 Slip 1	2356	4.3 E	11040 N Lombard	Tom Gainer	PH Agr for RI/SCE	RI	08/20/08	Stormwater	Ongoing	Reporting and evaluation	Fall 2008	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed									
Terminal 4 Slip 1	2356	4.3 E	11040 N Lombard	Tom Gainer	PH Agr for RI/SCE	RI	08/20/08	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Terminal 4 Slip 1	2356	4.3 E	11040 N Lombard	Tom Gainer	PH Agr for RI/SCE	RI	08/20/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Linnton Plywood	2373	4.6 W	10504 NW St Helens	Matt McClincy	PH Letter Agr for XPA (3/01)	XPA completed	03/13/06	Overland Transport/Sheet Flow	Completed			SCM addressed this potentially complete pathway	Low		EPA reviewed and commented		Independent removal of two small upland source areas and offsite disposal in 2002 and 2003	Received review 8/29/03					Received review 8/29/03	
Linnton Plywood	2373	4.6 W	10504 NW St Helens	Matt McClincy	PH Letter Agr for XPA (3/01)	XPA completed	03/13/06	Bank Erosion	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented		No SCM needed	Received review 8/29/03					Received review 8/29/03	
Linnton Plywood	2373	4.6 W	10504 NW St Helens	Matt McClincy	PH Letter Agr for XPA (3/01)	XPA completed	03/13/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low	Low	EPA reviewed and commented		No SCM needed	Received review 8/29/03					Received review 8/29/03	
Linnton Plywood	2373	4.6 W	10504 NW St Helens	Matt McClincy	PH Letter Agr for XPA (3/01)	XPA completed	03/13/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented		Ongoing Stormwater BMPs and monitoring	Received review 8/29/03					Received review 8/29/03	
Linnton Plywood	2373	4.6 W	10504 NW St Helens	Matt McClincy	PH Letter Agr for XPA (3/01)	XPA completed	03/13/06	Overwater Activities	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented		No SCM needed	Received review 8/29/03					Received review 8/29/03	
Linnton Plywood	2373	4.6 W	10504 NW St Helens	Matt McClincy	PH Letter Agr for XPA (3/01)	XPA completed	03/13/06	Other	N/A	N/A	N/A	N/A	none		N/A		N/A						N/A	
Terminal 4 Slip 3	272	4.6 E	10400 Lombard	Tom Gainer	Judgment for RD/RA (4/04)	RD/RA	01/15/08	Overland Transport/Sheet Flow	N/A	N/A - see Bank Erosion and Stormwater pathways	N/A	N/A	none	Medium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Terminal 4 Slip 3	272	4.6 E	10400 Lombard	Tom Gainer	Judgment for RD/RA (4/04)	RD/RA	01/15/08	Bank Erosion	Ongoing	Pencil pitch investigation at the "River Bank Area" and "Slip Bank Area"	Pencil Pitch Report submitted 5/06, additional work required TBD	Pencil pitch observed and PAHs detected in river bank soils above PECs	p Med		Waiting on SCE to be completed									
Terminal 4 Slip 3	272	4.6 E	10400 Lombard	Tom Gainer	Judgment for RD/RA (4/04)	RD/RA	01/15/08	Groundwater	Completed			Complete pathway - remedy recommended and implemented	Medium		EPA reviewed and commented, 2/2003		Bank excavation and backfill remedial action, NAPL recovery, monitoring	EPA reviewed and commented, 2/2003	Bank excavation and backfill remedial action (BEBRA) 11/04	2,700 cubic yards of contaminated soil removed; 30.2 gallons NAPL recovered to date	NAPL recovery and monitoring ongoing			
Terminal 4 Slip 3	272	4.6 E	10400 Lombard	Tom Gainer	Judgment for RD/RA (4/04)	RD/RA	01/15/08	Stormwater	Ongoing	Stormwater sampling ongoing	Fall 2008	Complete pathway; BMPs in place	p Med		Waiting on SCE to be completed									

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Terminal 4 Slip 3	272	4.6 E	10400 Lombard	Tom Gainer	Judgment for RD/RA (4/04)	RD/RA	01/15/08	Overwater Activities	N/A	N/A - Historic releases to be addressed by the in-water T4 Early Action	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Terminal 4 Slip 3	272	4.6 E	10400 Lombard	Tom Gainer	Judgment for RD/RA (4/04)	RD/RA	01/15/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
UPRR St Johns Tank Farm	2017	4.6 E	6908 N Roberts	Jim Anderson	Pre-PH VCP Letter Agr	NFA	03/07/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
UPRR St Johns Tank Farm	2017	4.6 E	6908 N Roberts	Jim Anderson	Pre-PH VCP Letter Agr	NFA	03/07/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
UPRR St Johns Tank Farm	2017	4.6 E	6908 N Roberts	Jim Anderson	Pre-PH VCP Letter Agr	NFA	03/07/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low	Low	SCE submitted to EPA April 2004, no comments received		No SCM needed						SCM submitted to EPA April 2004, no comments received	
UPRR St Johns Tank Farm	2017	4.6 E	6908 N Roberts	Jim Anderson	Pre-PH VCP Letter Agr	NFA	03/07/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low		SCE submitted to EPA April 2004, no comments received		No SCM needed							
UPRR St Johns Tank Farm	2017	4.6 E	6908 N Roberts	Jim Anderson	Pre-PH VCP Letter Agr	NFA	03/07/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
UPRR St Johns Tank Farm	2017	4.6 E	6908 N Roberts	Jim Anderson	Pre-PH VCP Letter Agr	NFA	03/07/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BP Terminal 22T (ARCO)	1528	4.8W	9930 NW St Helens	Tom Gainer	PH Agr for RI/SCM (6/00)	RI	8/20/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BP Terminal 22T (ARCO)	1528	4.8W	9930 NW St Helens	Tom Gainer	PH Agr for RI/SCM (6/00)	RI	8/20/08	Bank Erosion	N/A	No Bank -concrete sea wall	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BP Terminal 22T (ARCO)	1528	4.8W	9930 NW St Helens	Tom Gainer	PH Agr for RI/SCM (6/00)	RI	8/20/08	Groundwater	Completed			Free product & dissolved phase potentially reaching river	p High	p High	EPA reviewed and commented 2007	alternatives evaluation completed 3//2007 for on site GW	New sheetpile barrier wall with hydraulic control and GW pump & treat system	EPA reviewed 3/2007	Hydraulic Control system installed 1/2005, new sheetpile seawall 11/2007	700 linear feet of plume controlled at riverbank	Nearshore sediment removal starts 7/2008	11/07		effectiveness monitoring 2008
BP Terminal 22T (ARCO)	1528	4.8W	9930 NW St Helens	Tom Gainer	PH Agr for RI/SCM (6/00)	RI	8/20/08	Stormwater	Ongoing	Sampling stormwater system	Summer 2009	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed.									
BP Terminal 22T (ARCO)	1528	4.8W	9930 NW St Helens	Tom Gainer	PH Agr for RI/SCM (6/00)	RI	8/20/08	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BP Terminal 22T (ARCO)	1528	4.8W	9930 NW St Helens	Tom Gainer	PH Agr for RI/SCM (6/00)	RI	8/20/08	Other	N/A	N/A	N/A	N/A	none		N/A	alternatives evluation for near-shore sediment completed 3/07	Revetment and near-shore sediment removal and off-site disposal	EPA reviewed 3/07	N/A	16,300 CY sediment	Removal commences summer 2007	N/A	N/A	Recontamination evaluation
Port of Portland Auto Storage Area (ASA)	2642	5.0 E	10400 Lombard	Tom Gainer	Pre-PH DEQ/Port IGA (11/00)	NFA	03/06/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port of Portland Auto Storage Area (ASA)	2642	5.0 E	10400 Lombard	Tom Gainer	Pre-PH DEQ/Port IGA (11/00)	NFA	03/06/06	Bank Erosion	Completed			Insignificant pathway; no actions recommended	Low	Low	EPA reviewed and commented 6/04		No SCM needed							
Port of Portland Auto Storage Area (ASA)	2642	5.0 E	10400 Lombard	Tom Gainer	Pre-PH DEQ/Port IGA (11/00)	NFA	03/06/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented 6/04		No SCM needed							
Port of Portland Auto Storage Area (ASA)	2642	5.0 E	10400 Lombard	Tom Gainer	Pre-PH DEQ/Port IGA (11/00)	NFA	03/06/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented 6/04		No SCM needed							
Port of Portland Auto Storage Area (ASA)	2642	5.0 E	10400 Lombard	Tom Gainer	Pre-PH DEQ/Port IGA (11/00)	NFA	03/06/06	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port of Portland Auto Storage Area (ASA)	2642	5.0 E	10400 Lombard	Tom Gainer	Pre-PH DEQ/Port IGA (11/00)	NFA	03/06/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Exxon Mobil	137	5.1 W	9420 NW St Helens	Tom Gainer	VCP Agr for Remedial Action (5/02)	RD/RA	08/20/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Exxon Mobil	137	5.1 W	9420 NW St Helens	Tom Gainer	VCP Agr for Remedial Action (5/02)	RD/RA	08/20/08	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Exxon Mobil	137	5.1 W	9420 NW St Helens	Tom Gainer	VCP Agr for Remedial Action (5/02)	RD/RA	08/20/08	Groundwater	Completed			Groundwater is a complete pathway	High	High	DEQ issued a ROD in 1997 requiring groundwater treatment	DEQ issued a ROD in 1997 requiring groundwater treatment	Operating air sparge & SVE system. Expansion of air sparge system (1/2005) - Additional GW SCMS are being considered	Possibility only if remedy is shown not to be protective and altenative remedial action is proposed	Operating air sparge & SVE system. Expansion of air sparge system (1/2005)		Additional SCMs in hydraulic gap at downstream end of site (2009)			System inspection , opartion, and effectiveness monitoring ongoing
Exxon Mobil	137	5.1 W	9420 NW St Helens	Tom Gainer	VCP Agr for Remedial Action (5/02)	RD/RA	08/20/08	Stormwater	Not Started	DEQ negotiating with current facility owner NuStar to enter Portland Harbor Cleanup Agreement and conduct SCE	Winter 2008	Waiting on SCE to be completed	to be determined											
Exxon Mobil	137	5.1 W	9420 NW St Helens	Tom Gainer	VCP Agr for Remedial Action (5/02)	RD/RA	08/20/08	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Exxon Mobil	137	5.1 W	9420 NW St Helens	Tom Gainer	VCP Agr for Remedial Action (5/02)	RD/RA	08/20/08	Other - current NPDES permitted discharge	Not Started	To be determined	No current schedule	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed.										
Olympic Pipeline Portland Facility within ExxonMobil	3342	5.2W	9420 NW St Helens	Tom Gainer	ICP	XPA	08/20/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Olympic Pipeline Portland Facility within ExxonMobil	3342	5.2W	9420 NW St Helens	Tom Gainer	ICP	XPA	08/20/08	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Olympic Pipeline Portland Facility within ExxonMobil	3342	5.2W	9420 NW St Helens	Tom Gainer	ICP	XPA	08/20/08	Groundwater	Completed			Insignificant pathway; no actions recommended	Low	Low	Waiting on SCE completion		Conducted soil removal following petroleum spill in mid 1990s								
Olympic Pipeline Portland Facility within ExxonMobil	3342	5.2W	9420 NW St Helens	Tom Gainer	ICP	XPA	08/20/08	Stormwater	Ongoing	Dependent upon groundwater conditions	Spring 2009	Waiting on SCE to be completed	to be determined		Waiting on SCE completion										
Olympic Pipeline Portland Facility within ExxonMobil	3342	5.2W	9420 NW St Helens	Tom Gainer	ICP	XPA	08/20/08	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Olympic Pipeline Portland Facility within ExxonMobil	3342	5.2W	9420 NW St Helens	Tom Gainer	ICP	XPA	08/20/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NuStar (aka Valero)	1989	5.4W	9400 NW St Helens Rd	Jim Orr	Negotiating Agreement		01/24/06	Overland Transport/Sheet Flow	Not Started		No current schedule.	Waiting on SCE to be completed	to be determined		Waiting on SCE completion (m-y)										
NuStar (aka Valero)	1989	5.4W	9400 NW St Helens Rd	Jim Orr	Negotiating Agreement		07/15/08	Bank Erosion	Not Started		No current schedule.	Waiting on SCE to be completed	p Low		Waiting on SCE completion (m-y)										
NuStar (aka Valero)	1989	5.4W	9400 NW St Helens Rd	Jim Orr	Negotiating Agreement		07/15/08	Groundwater	Not Started		No current schedule.	Waiting on SCE to be completed	to be determined	p Med	Waiting on SCE completion (m-y)										
NuStar (aka Valero)	1989	5.4W	9400 NW St Helens Rd	Jim Orr	Negotiating Agreement		07/15/08	Stormwater	Not Started		No current schedule.	Waiting on SCE to be completed	to be determined		Waiting on SCE completion (m-y)										
NuStar (aka Valero)	1989	5.4W	9400 NW St Helens Rd	Jim Orr	Negotiating Agreement		07/15/08	Overwater Activities	Not Started		No current schedule.	Waiting on SCE to be completed	to be determined		Waiting on SCE completion (m-y)										
NuStar (aka Valero)	1989	5.4W	9400 NW St Helens Rd	Jim Orr	Negotiating Agreement		07/15/08	Other	Not Started		No current schedule.	Waiting on SCE to be completed	to be determined		Waiting on SCE completion (m-y)										
Mar Com Marine (N Parcel)	2350	5.6 E	8790 N Bradford	Mike Romero	PH Agr for RI/SCM (11/01)	RD/RA	08/06/08	Overland Transport/Sheet Flow	Completed			overland soil transport suspected migration pathway	Low		EPA reviewed and commented 2004	alternatives evaluation completed in 2004	removal of 278 cubic yards of sandblast grit and soil; DEQ issues SCD in 5/2004	EPA reviewed and approved 2004	2007	278 CY soil	Port of Portland condemned property, Port conducted soil removal as prescribed in ROD 5/07	5/07	EPA commented 5/08	None
Mar Com Marine (N Parcel)	2350	5.6 E	8790 N Bradford	Mike Romero	PH Agr for RI/SCM (11/01)	RD/RA	08/06/08	Bank Erosion	Not Started	To be determined	No current schedule, 2008	Deferred investigation of beach to Mar Com South Parcel	p Med		Waiting on SCE to be completed		Deferred investigation of beach to Mar Com South Parcel								

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Confirmed or suspected sources of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Mar Com Marine (N Parcel)	2350	5.6 E	8790 N Bradford	Mike Romero	PH Agr for RI/SCM (11/01)	RD/RA	08/06/08	Groundwater	Completed			Insignificant pathway; no actions recommended	Low	p Med	EPA reviewed and commented 2004		N/A							
Mar Com Marine (N Parcel)	2350	5.6 E	8790 N Bradford	Mike Romero	PH Agr for RI/SCM (11/01)	RD/RA	08/06/08	Stormwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented 2004		N/A							
Mar Com Marine (N Parcel)	2350	5.6 E	8790 N Bradford	Mike Romero	PH Agr for RI/SCM (11/01)	RD/RA	08/06/08	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mar Com Marine (N Parcel)	2350	5.6 E	8790 N Bradford	Mike Romero	PH Agr for RI/SCM (11/01)	RD/RA	08/06/08	Other	N/A		N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Brix Maritime (aka Foss)	2364	5.7 W	9030 NW St Helens	Jim Orr	PH Agr for RI/SCM (5/02)	RI	01/03/08	Overland Transport/Sheet Flow	N/A	N/A, releases from USTs, site is entirely paved and/or developed	N/A	N/A	none	p Med	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Brix Maritime (aka Foss)	2364	5.7 W	9030 NW St Helens	Jim Orr	PH Agr for RI/SCM (5/02)	RI	01/03/08	Bank Erosion	N/A	N/A, releases from USTs, heavily armored with rip-rap, no significant habitat	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Brix Maritime (aka Foss)	2364	5.7 W	9030 NW St Helens	Jim Orr	PH Agr for RI/SCM (5/02)	RI	01/03/08	Groundwater	Ongoing	Continue monitoring; compile available site data for RI and source control evaluation	Winter 2009	Pathway is complete	pMed		Waiting on SCE to be completed.									
Brix Maritime (aka Foss)	2364	5.7 W	9030 NW St Helens	Jim Orr	PH Agr for RI/SCM (5/02)	RI	01/03/08	Stormwater	Stormwater Pathway Work Plan approved 12/07	Catch basin sediment sampling/screening for site COI plus PCBs and phthalates, and follow-up storm water sampling per ISCS	Winter 2009	to be determined	to be determined		Waiting on SCE to be completed.									
Brix Maritime (aka Foss)	2364	5.7 W	9030 NW St Helens	Jim Orr	PH Agr for RI/SCM (5/02)	RI	01/03/08	Overwater Activities	N/A	N/A	N/A	No known current sources (spills will be reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Brix Maritime (aka Foss)	2364	5.7 W	9030 NW St Helens	Jim Orr	PH Agr for RI/SCM (5/02)	RI	01/03/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mar Com (S Parcel)	2350	5.8 E	8790 N Bradford	Mike Romero	PH Agr	RI	08/06/08	Overland Transport/Sheet Flow	Ongoing	Overland flows down concrete shipway and across large unpaved site areas need to be investigated	Fall 2008	draft SCE completed, under review	p High	p High	Waiting on SCE to be completed in 2008									
Mar Com (S Parcel)	2350	5.8 E	8790 N Bradford	Mike Romero	PH Agr	RI	08/06/08	Bank Erosion	Ongoing	Investigation must include North Parcel bank and beach	Fall 2008	draft SCE completed, under review	to be determined		Waiting on SCE to be completed in 2008									
Mar Com (S Parcel)	2350	5.8 E	8790 N Burgard	Mike Romero	PH Agr	RI	08/06/08	Groundwater	Ongoing	Need to determine N&E in RI	Fall 2008	draft SCE completed, under review	p Med		Waiting on SCE to be completed in 2008									
Mar Com (S Parcel)	2350	5.8 E	8790 N Bradford	Mike Romero	PH Agr	RI	08/06/08	Stormwater	Ongoing	Catch basin and Stormwater sampling	Fall 2008	draft SCE completed, under review	to be determined		Waiting on SCE to be completed in 2008									
Mar Com (S Parcel)	2350	5.8 E	8790 N Bradford	Mike Romero	PH Agr	RI	08/06/08	Overwater Activities	N/A	No current overwater activities, only historic	N/A	N/A	to be determined		N/A		Floating dry dock sold in 2004, and removed from site							
Mar Com (S Parcel)	2350	5.8 E	8790 N Bradford	Mike Romero	PH Agr	RI	08/06/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Marine Finance, AKA Advanced American	2352	5.8 W	8444 NW St Helens	Mark Pugh	PPA	NFA	06/16/08	Overland Transport/Sheet Flow	Completed			contaminated over screening criteria in soil potentially susceptible to runoff	Low		SCE submitted to EPA 9/30/04. No comments received	alternatives evaluation completed 2004	Dig and haul soil contamination; capping with clean fill and/or building	SCM submitted to EPA 9/2004; no comments received	Soil removed 08/05, selected site areas capped with building and/or clean fill	1,150 cubic yards of soil removed (estimated); report pending		11/05	SCA submitted to EPA July 18, 2007.	Institutional control for cap and building will be required.
Marine Finance, AKA Advanced American	2352	5.8 W	8444 NW St Helens	Mark Pugh	PPA	NFA	06/16/08	Bank Erosion	Completed			Insignificant pathway; no actions recommended	Low		SCE submitted to EPA 9/30/04. No comments received.	alternatives evaluation completed 2004	No SCM needed						SCA submitted to EPA July 18, 2007.	N/A
Marine Finance, AKA Advanced American	2352	5.8 W	8444 NW St Helens	Mark Pugh	PPA	NFA	06/16/08	Groundwater	Completed			Insignificant pathway; no actions recommended	Low		SCE submitted to EPA 9/30/04. No comments received.	alternatives evaluation completed 2004	No SCM needed						SCA submitted to EPA July 18, 2007.	N/A

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Site information					Project status							*Basis for determination that source control is needed*												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Marine Finance, AKA Advanced American	2352	5.8 W	8444 NW St Helens	Mark Pugh	PPA	NFA	06/16/08	Stormwater	completed			Insignificant pathway; no actions recommended	Low		N/A	N/A	N/A	N/A	N/A	N/A	Storm drain system was installed in May 2006; 3 storm water sampling events complete. 1 more pending		SCA submitted to EPA July 18, 2007.	N/A
Marine Finance, AKA Advanced American	2352	5.8 W	8444 NW St Helens	Mark Pugh	PPA	NFA	06/16/06	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Marine Finance, AKA Advanced American	2352	5.8 W	8444 NW St Helens	Mark Pugh	PPA	NFA	06/16/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BES Water Lab	2452	6.0E	6543 N Burlington				01/24/08	Overland Transport/Sheet Flow	Not Started		No current schedule.	Waiting on SCE to be completed	to be determined	to be determined	Waiting on SCE completion (m-y)									
BES Water Lab	2452	6.0E	6543 N Burlington				01/24/08	Bank Erosion	Not Started		No current schedule.	Waiting on SCE to be completed	p Low		Waiting on SCE completion (m-y)									
BES Water Lab	2452	6.0E	6543 N Burlington				01/24/08	Groundwater	Not Started		No current schedule.	Waiting on SCE to be completed	to be determined		Waiting on SCE completion (m-y)									
BES Water Lab	2452	6.0E	6543 N Burlington				01/24/08	Stormwater	Not Started		No current schedule.	Waiting on SCE to be completed	to be determined		Waiting on SCE completion (m-y)									
BES Water Lab	2452	6.0E	6543 N Burlington				01/24/08	Overwater Activities	Not Started		No current schedule.	Waiting on SCE to be completed	to be determined		Waiting on SCE completion (m-y)									
BES Water Lab	2452	6.0E	6543 N Burlington				01/24/08	Other	Not Started		No current schedule.	Waiting on SCE to be completed	to be determined		Waiting on SCE completion (m-y)									
US Moorings	1641	6.2W	8010 NW St. Helens Rd.	Mark Ader EPA	Federal RCRA Order	RI	08/20/08	Overland Transport/Sheet Flow	N/A		No current schedule.	Waiting on SCE to be completed	to be determined	to be determined	NA									
US Moorings	1641	6.2W	8010 NW St. Helens Rd.	Mark Ader EPA	Federal RCRA Order	RI	08/20/08	Bank Erosion	Not Started		No current schedule.	Waiting on SCE to be completed	to be determined		NA									
US Moorings	1641	6.2W	8010 NW St. Helens Rd.	Mark Ader EPA	Federal RCRA Order	RI	08/20/08	Groundwater	Not Started		No current schedule.	Waiting on SCE to be completed	to be determined		NA									
US Moorings	1641	6.2W	8010 NW St. Helens Rd.	Mark Ader EPA	Federal RCRA Order	RI	08/20/08	Stormwater	Not Started		No current schedule.	Waiting on SCE to be completed	to be determined		NA									
US Moorings	1641	6.2W	8010 NW St. Helens Rd.	Mark Ader EPA	Federal RCRA Order	RI	08/20/08	Overwater Activities	Not Started		No current schedule.	Waiting on SCE to be completed	to be determined		NA									
US Moorings	1641	6.2W	8010 NW St. Helens Rd.	Mark Ader EPA	Federal RCRA Order	RI	08/20/08	Other	Not Started		No current schedule.	Waiting on SCE to be completed	to be determined		N/A									
Crawford Street Corp	2363	6.3 E	84248 N Crawford	Tom Gainer	PH Letter Agr for XPA (11/99)	XPA	08/20/08	Overland Transport/Sheet Flow	Ongoing	See Stormwater Pathway	Winter 2008	Waiting on SCE to be completed	to be determined		Waiting on SCE completion									
Crawford Street Corp	2363	6.3 E	84248 N Crawford	Tom Gainer	PH Letter Agr for XPA (11/99)	XPA	08/20/08	Bank Erosion	Ongoing	To be determined	Winter 2008	Waiting on SCE to be completed	to be determined		Waiting on SCE completion		RP removed black sand from beach and bank in 10/01. Residual contamination exists on beach. Bank was replaced with clean fill							
Crawford Street Corp	2363	6.3 E	84248 N Crawford	Tom Gainer	PH Letter Agr for XPA (11/99)	XPA	08/20/08	Groundwater	Completed			Insignificant pathway; no actions recommended	p Low	p Low	Waiting on SCE completion									
Crawford Street Corp	2363	6.3 E	84248 N Crawford	Tom Gainer	PH Letter Agr for XPA (11/99)	XPA	08/20/08	Stormwater	Ongoing	Storm water sampling per JSCS	Winter 2008	Waiting on SCE to be completed	to be determined		Waiting on SCE completion									
Crawford Street Corp	2363	6.3 E	84248 N Crawford	Tom Gainer	PH Letter Agr for XPA (11/99)	XPA	08/20/08	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Crawford Street Corp	2363	6.3 E	84248 N Crawford	Tom Gainer	PH Letter Agr for XPA (11/99)	XPA	08/20/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NW Natural - "Gasco" Site	84	6.4 W	7900 NW St Helens	Dana Bayuk	Pre-PH VCP Agr for RI/FS (8/94) amended 7/06	RI	08/06/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NW Natural - "Gasco" Site	84	6.4 W	7900 NW St Helens	Dana Bayuk	Pre-PH VCP Agr for RI/FS (8/94) amended 7/06	RI	08/06/08	Bank Erosion	Completed			Pathway is complete	High			SCM Evaluation (FFS) submitted 11/07, DEQ review complete (3.08), recommended SCMs include no action, bank regrading/rip-rap repair, or use of a vegetated cellular confinement system. DEQ requiring riverbank approach to be resubmitted with removal/replacement and shallow groundwater SCMs alternatives included.		EPA comments received 2/08			Construction projected to begin Spring-Summer 2009 pending approval of SCMs design & acquisition of permits			
NW Natural "Gasco" Site	84	6.4 W	7900 NW St Helens	Dana Bayuk	Pre-PH VCP Agr for RI/FS (8/94) amended 7/06	RI	08/06/08	Groundwater	Completed			Pathway is complete	High	High		SCM Evaluation (FFS) submitted 11/07, DEQ review complete 3/08	Verttical barrier in most contaminated shoreline area (Segment 1), hydraulic containment along site shoreline (segments 1 and 2), and DNAPL removal beneath former effluent ponds.	EPA comments received 2/08			Construction projected to begin Spring-Summer 2009 pending approval of SCMs design & acquisition of permits			
NW Natural "Gasco" Site	84	6.4 W	7900 NW St Helens	Dana Bayuk	Pre-PH VCP Agr for RI/FS (8/94) amended 7/06	RI	08/06/08	Stormwater	Stormwater Pathway Work Plan approved 1/08	Catch basin sediment sampling/screening for site COI plus PCBs and phthalates, and follow-up storm water sampling per JSCS.	Spring 2009	Pathway is complete	to be determined		Waiting on SCE to be completed.									
NW Natural "Gasco" Site	84	6.4 W	7900 NW St Helens	Dana Bayuk	Pre-PH VCP Agr for RI/FS (8/94) amended 7/06	RI	08/06/08	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A
NW Natural - "Gasco" Site	84	6.4 W	7900 NW St Helens	Dana Bayuk	Pre-PH VCP Agr for RI/FS (8/94) amended 7/06	RI	08/06/08	Other - Koppers NPDES Permit	Ongoing	Investigate COI contributions to Doane Creek & City's OF-22C per Stormwater Pathway Work Plan	to be determined	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed									
NW Natural - "Siltronic MGP" Site	183	6.6 W	7700 NW Front	Dana Bayuk	Joint NW Natural/Siltronic Order (10/00) & Amendment #1 (7/06) to Pre-PH VCP Agr for RI/FS (8/94)	RI	08/06/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NW Natural - "Siltronic MGP" Site	183	6.6 W	7700 NW Front	Dana Bayuk	Joint NW Natural/Siltronic Order (10/00) & Amendment #1 (7/06) to Pre-PH VCP Agr for RI/FS (8/94)	RI	08/06/08	Bank Erosion	Ongoing	Characterize MGP waste/contamination along shoreline per NW Natural's "Siltronic MGP Site" RI work plan approved 10/07	to be determined	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed									
NW Natural - "Siltronic MGP" Site	183	6.6 W	7700 NW Front	Dana Bayuk	Joint NW Natural/Siltronic Order (10/00) & Amendment #1 (7/06) to Pre-PH VCP Agr for RI/FS (8/94)	RI	08/06/08	Groundwater	Completed	Completed for Siltronic portion of Segment 1. Compile and review groundwater data for portion of shoreline not included in SCM Evaluations (i.e., Segment 3)	Winter 2008 (Segment 3)	Pathway is complete	High	High		SCM Evaluation (FFS) submitted 11/07, DEQ review complete (3/08)	Hydraulic containment of Siltronic portion of shoreline Segment 1 (i.e., area of commingled MGP and VOC impacts)	EPA comments received 2/08			Construction projected to begin Spring-Summer 2009 pending approval of SCMs design & acquisition of permits			
NW Natural - "Siltronic MGP" Site	183	6.6 W	7700 NW Front	Dana Bayuk	Joint NW Natural/Siltronic Order (10/00) & Amendment #1 (7/06) to Pre-PH VCP Agr for RI/FS (8/94)	RI	08/06/08	Stormwater	Ongoing	Assess storm water conveyance system as migration pathway for MGP waste/contamination	Spring 2009	Pathway is complete	to be determined		Waiting on SCE to be completed									

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Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Gould Electronics, Inc aka GA-TEK	49	7.5W	5909 NW 61st Ave	EPA lead; Chip Humphrey	EPA Consent Decree		03/15/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gould Electronics, Inc aka GA-TEK	49	7.5W	5909 NW 61st Ave	EPA lead; Chip Humphrey	EPA Consent Decree		03/15/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gould Electronics, Inc aka GA-TEK	49	7.5W	5909 NW 61st Ave	EPA lead; Chip Humphrey	EPA Consent Decree		03/15/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low		EPA issued groundwater NFA based upon risk assessment		No SCM needed						EPA lead	
Gould Electronics, Inc aka GA-TEK	49	7.5W	5909 NW 61st Ave	EPA lead; Chip Humphrey	EPA Consent Decree		03/15/06	Groundwater/ City Storm Sewer	Completed			Pathway has been eliminated	none		EPA lead									
Gould Electronics, Inc aka GA-TEK	49	7.5W	5909 NW 61st Ave	EPA lead; Chip Humphrey	EPA Consent Decree		03/15/06	Stormwater	Completed			Historically pathway existed. Current discharge insignificant pathway; no actions recommended	Low	Low	EPA lead		1) Contaminated soil removal and containment (landfill); 2) Sediment removal; 3) RCRA waste containment; 4) Removed waste pond 5) O&M ongoing						EPA lead	
Gould Electronics, Inc aka GA-TEK	49	7.5W	5909 NW 61st Ave	EPA lead; Chip Humphrey	EPA Consent Decree		03/15/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gould Electronics, Inc aka GA-TEK	49	7.5W	5909 NW 61st Ave	EPA lead; Chip Humphrey	EPA Consent Decree		03/15/06	Other - Historic and Current NPDES permit	Completed			Historically pathway existed. Current discharge insignificant pathway; no actions recommended	Low		EPA lead		Removed waste pond (East Doane Lake); O&M ongoing						EPA lead	
Willbridge (Kinder Morgan, Chevron, Conoco Phillips)	1549	7.7 W	Front Ave & NW Doane	Mike Romero	Pre-PH Consent Order (3/94)	RI/FS	08/06/08	Overland Transport/Sheet Flow	Completed			Insignificant pathway; no actions recommended	Low		Submitted to EPA fall 2004; no comments		No SCM needed						N/A	
Willbridge (Kinder Morgan, Chevron, Conoco Phillips)	1549	7.7 W	Front Ave & NW Doane	Mike Romero	Pre-PH Consent Order (3/94)	RI/FS	08/06/08	Bank Erosion	Completed	Erodable Soils sampling conducted		Insignificant pathway; no actions recommended	Low		Submitted to EPA fall 2004; no comments		No SCM needed						N/A	
Willbridge (Kinder Morgan, Chevron, Conoco Phillips)	1549	7.7 W	Front Ave & NW Doane	Mike Romero	Pre-PH Consent Order (3/94)	RI/FS	08/06/08	Groundwater	Ongoing	Deep GW monitor wells installed 12/07	Fall 2008	GW suspected migration pathway	High	High	1st SCE submitted to EPA fall 2004; no comments. Waiting for 2nd SCE for deep GW to be completed	no alternatives evaluation needed	Product recovery & hydraulic containment for shallow GW (sheet pile wall)	Proposed SCM submitted to EPA fall 2004; no comments	hydraulic containment and treatment		containment system installed 2006;			Operation and Maintenance requirements
Willbridge (Kinder Morgan, Chevron, Conoco Phillips)	1549	7.7 W	Front Ave & NW Doane	Mike Romero	Pre-PH Consent Order (3/94)	RI/FS	08/06/08	Stormwater	Ongoing	Stormwater characterization started fall 07'	Fall 2008	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed. # site conducting individual SCE for this pathway		Leaking stormwater covenanyce system being repaired to stop GW infiltration at Conoco and KM				Repair stormwater system begun 11/07			
Willbridge (Kinder Morgan, Chevron, Conoco Phillips)	1549	7.7 W	Front Ave & NW Doane	Mike Romero	Pre-PH Consent Order (3/94)	RI/FS	08/06/08	Overwater Activities	N/A	N/A	Fall 2008	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Willbridge (Kinder Morgan, Chevron, Conoco Phillips)	1549	7.7 W	Front Ave & NW Doane	Mike Romero	Pre-PH Consent Order (3/94)	RI/FS	08/06/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chevron Asphalt	1281	8.0 W	5501 NW Front	Mark Pugh	PH Letter Agr for XPA (1/03)	XPA	06/16/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chevron Asphalt	1281	8.0 W	5501 NW Front	Mark Pugh	PH Letter Agr for XPA (1/03)	XPA	06/16/08	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table 1: DEQ Milestone Report
Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

Confirmed or suspected sources of contamination to the river																							
Site information					Project status			Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Basis for determination that source control is needed			Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
												Pathway determination	Pathway priority level	Site priority level										
Arkema	398	7.2 W	6400 NW Front	Matt McClincy	Pre-PH VCP Formal Agr for RI/FS (8/98)	RI	08/20/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
McCall Oil	134	7.4 W	5550 NW Front	Jim Orr	PH Agr for RI/CSM (3/00)	RI	07/15/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
McCall Oil	134	7.4 W	5550 NW Front	Jim Orr	PH Agr for RI/CSM (3/00)	RI	07/15/08	Bank Erosion	Ongoing	RP is conducting RI to determine if SCMs are needed on the bank	4nd Qtr 2008	Preliminary determination that pathway is insignificant	p Low		Waiting on SCE to be completed.									
McCall Oil	134	7.4 W	5550 NW Front	Jim Orr	PH Agr for RI/CSM (3/00)	RI	07/15/08	Groundwater	Ongoing	Continue groundwater monitoring to evaluate shoreline concentrations	4nd Qtr 2008	Waiting on SCE to be completed	p Med	p Med	Waiting on SCE to be completed.									
McCall Oil	134	7.4 W	5550 NW Front	Jim Orr	PH Agr for RI/CSM (3/00)	RI	07/15/08	Stormwater	Ongoing	Storm water sampling per JSCS	4nd Qtr 2008	Waiting on SCE to be completed	p Med		Waiting on SCE to be completed.									
McCall Oil	134	7.4 W	5550 NW Front	Jim Orr	PH Agr for RI/CSM (3/00)	RI	07/15/08	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
McCall Oil	134	7.4 W	5550 NW Front	Jim Orr	PH Agr for RI/CSM (3/00)	RI	07/15/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GS Roofing	117	7.5 W	6350 NW Front	Ken Thiessen	VCP - PH Agr	XPA	07/16/08	Overland Transport/Sheet Flow	Ongoing	XPA complete; RI and SCE to be initiated	SOW under development	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed.									
GS Roofing	117	7.5 W	6350 NW Front	Ken Thiessen	VCP - PH Agr	XPA	07/16/08	Bank Erosion	Ongoing	XPA complete; RI and SCE to be initiated in RI	SOW under development	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed.									
GS Roofing	117	7.5 W	6350 NW Front	Ken Thiessen	VCP - PH Agr	XPA	07/16/08	Groundwater	Ongoing	XPA complete; RI and SCE to be initiated	SOW under development	Waiting on SCE to be completed	to be determined	to be determined	Waiting on SCE to be completed.									
GS Roofing	117	7.5 W	6350 NW Front	Ken Thiessen	VCP - PH Agr	XPA	07/16/08	Stormwater	Ongoing	XPA complete; RI and SCE to be initiated	SOW under development	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed.									
GS Roofing	117	7.5 W	6350 NW Front	Ken Thiessen	VCP - PH Agr	XPA	07/16/08	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GS Roofing	117	7.5 W	6350 NW Front	Ken Thiessen	VCP - PH Agr	XPA	07/16/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Triangle Park (N PDX Yard)	277	7.5 E	5828 N Van Houten	Mark Ader EPA	Federal PPA 2006	RI	12/15/06	Overland Transport/Sheet Flow	Ongoing	Finish Site Characterization	1st qtr. 2007	Contaminated soil entrained in stormwater & sheetflow	Medium		EPA reviewed & commented on DEQ's 2004 SCD	Waiting for EPA to complete Site Investigation, 2nd Qtr 2007								
Triangle Park (N PDX Yard)	277	7.5 E	5828 N Van Houten	Mark Ader EPA	Federal PPA 2006	RI	12/15/06	Bank Erosion	Ongoing	Finish Site Characterization	1st qtr. 2007	Contaminated soil entrained in stormwater & sheetflow	Medium		EPA reviewed & commented on DEQ's 2004 SCD	Waiting for EPA to complete Site Investigation, 2nd Qtr 2007								
Triangle Park (N PDX Yard)	277	7.5 E	5828 N Van Houten	Mark Ader EPA	Federal PPA 2006	RI	12/15/06	Groundwater	Ongoing	Finish Site Characterization	1st qtr. 2007	Pathway is complete	to be determined	Medium	EPA reviewed & commented on DEQ's 2004 SCD	Waiting for EPA to complete Site Investigation, 2nd Qtr 2007								
Triangle Park (N PDX Yard)	277	7.5 E	5828 N Van Houten	Mark Ader EPA	Federal PPA 2006	RI	12/15/06	Stormwater	Ongoing	Finish Site Characterization	1st qtr. 2007	Contaminated soil entrained in stormwater & sheetflow	Medium		EPA reviewed & commented on DEQ's 2004 SCD	Waiting for EPA to complete Site Investigation, 2nd Qtr 2007								
Triangle Park (N PDX Yard)	277	7.5 E	5828 N Van Houten	Mark Ader EPA	Federal PPA 2006	RI	12/15/06	Overwater Activities	N/A	Finish Site Characterization	1st qtr. 2007	No current overwater activities	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Triangle Park (N PDX Yard)	277	7.5 E	5828 N Van Houten	Mark Ader EPA	Federal PPA 2006	RI	12/15/06	Other - Petroleum pipeline enters at south end of site from beneath the river	Ongoing	Finish Site Characterization	1st qtr. 2007	Insignificant pathway; no actions recommended	Low		EPA reviewed & commented on DEQ's 2004 SCD	Waiting for EPA to complete Site Investigation, 2nd Qtr 2007								

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Confirmed or suspected sources of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Rhone Poulenc	155	6.9 W	6200 NW St Helens	Dave Lacey	Pre-PH Order for RI (1999)	RI	08/20/08	Groundwater (plume discharge to City Outfall 22B)	Ongoing	Phased dry weather flow investigation in progress		Pathway is complete	High	High	Waiting on SCE to be completed	Interim measures identified	Interim SCMs to stormwater line to prevent gw infiltration, effectiveness monitoring ongoing							
Rhone Poulenc	155	6.9 W	6200 NW St Helens	Dave Lacey	Pre-PH Order for RI (1999)	RI	08/20/08	Stormwater	Ongoing	City Outfall 22B & 22C storm drain evaluations	Pending GW SCM for 22B	Waiting on SCE to be completed	p Med		Waiting on SCE to be completed	schedule for completing draft evaluation report: Feb. '08								
Rhone Poulenc	155	6.9 W	6200 NW St Helens	Dave Lacey	Pre-PH Order for RI (1999)	RI	08/20/08	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rhone Poulenc	155	6.9 W	6200 NW St Helens	Dave Lacey	Pre-PH Order for RI (1999)	RI	08/20/08	Other - historical drainage ditch	Ongoing	Complete remedial investigation	Part of SCE 1st Qtr '09	Waiting on SCE to be completed	p Low		Waiting on SCE to be completed									
Rhone Poulenc	155	6.9 W	6200 NW St Helens	Dave Lacey	Pre-PH Order for RI (1999)	RI	08/20/08	Other - current NPDES permitted discharge	Ongoing	Data collection for PH COI	Part of SCE 1st Qtr '09	Waiting on SCE to be completed	p Low		Waiting on SCE to be completed.									
McCormick & Baxter	74	7.0E	6900 N Edgewater Street	Scott Manzano	Superfund agreement with EPA	remedy implemented	03/09/06	Overland Transport/Sheet Flow	Completed			Pathway is complete	High	High	Complete		contaminated soil removal, sheet-pile barrier wall, sediment cap, riparian soil cap, upland soil cap, creosote extraction		all SCMs have been implemented.	6,200 gallons of creosote recovered from groundwater, 33,000 tons of contaminated soil and debris removed, 23 acres of contaminated sediment capped, 6 acres of contaminated bank soil capped, 35 acres of contaminated upland soil capped			EPA reviewed and commented	periodic inspection and maintenance, effectiveness monitoring, site use restrictions
McCormick & Baxter	74	7.0E	6900 N Edgewater Street	Scott Manzano	Superfund agreement with EPA	remedy implemented	03/09/06	Bank Erosion	Completed			Pathway is complete	High		Complete							EPA reviewed and commented	
McCormick & Baxter	74	7.0E	6900 N Edgewater Street	Scott Manzano	Superfund agreement with EPA	remedy implemented	03/09/06	Groundwater	Completed			Pathway is complete	High		Complete							EPA reviewed and commented	
McCormick & Baxter	74	7.0E	6900 N Edgewater Street	Scott Manzano	Superfund agreement with EPA	remedy implemented	03/09/06	Stormwater	Completed			Pathway is complete	High		Complete							EPA reviewed and commented	
McCormick & Baxter	74	7.0E	6900 N Edgewater Street	Scott Manzano	Superfund agreement with EPA	remedy implemented	03/09/06	Overwater Activities	Completed			Pathway is complete	High		Complete							EPA reviewed and commented	
McCormick & Baxter	74	7.0E	6900 N Edgewater Street	Scott Manzano	Superfund agreement with EPA	remedy implemented	03/09/06	Other	N/A			N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Koppers Inc	2348	7.0W	7540 NW St. Helens Rd.	Dana Bayuk	Part of NW Natural "Gasco" Site; see ESCI #84		08/20/08	Overland Transport/Sheet Flow						to be determined										
Koppers Inc	2348	7.0W	7540 NW St. Helens Rd.	Dana Bayuk			08/20/08	Bank Erosion																
Koppers Inc	2348	7.0W	7540 NW St. Helens Rd.	Dana Bayuk			08/20/08	Groundwater																
Koppers Inc	2348	7.0W	7540 NW St. Helens Rd.	Dana Bayuk			08/20/08	Stormwater																
Koppers Inc	2348	7.0W	7540 NW St. Helens Rd.	Dana Bayuk			08/20/08	Overwater Activities																
Koppers Inc	2348	7.0W	7540 NW St. Helens Rd.	Dana Bayuk		Ongoing	08/20/08	Other - Koppers NPDES Permit	Ongoing	Investigate COI contributions to Doane Creek & City's OF-22C per Stormwater Pathway Work Plan approved 1/08	to be determined	Pathway is complete	to be determined		Waiting on SCE to be completed									
Arkema	398	7.2 W	6400 NW Front	Matt McClincy	Pre-PH VCP Formal Agr for RI/FS (9/98)	RI	08/20/08	Groundwater (Chlorobenzene/DDT Plume)	Completed		Completed April 07	Pathway is complete	High	High	EPA May 07 Completed	Draft focused feasibility study (ffs) for proposed hydraulic containment wall/system submitted May 08, in revision.	Final SCM TBD Interim SCM AS/SVE system in-situ chemical oxidation - System shut down June 2006	EPA reviwed and commented on draft ffs July 08	Interim SCMs include AS/SVE system, initiated in-situ chem-ox treatment					
Arkema	398	7.2 W	6400 NW Front	Matt McClincy	Pre-PH VCP Formal Agr for RI/FS (9/98)	RI	08/20/08	Groundwater (Hexavalent Chromium Plume)	Completed		Completed April 07	Pathway is complete	High		EPA May 07 Completed	Draft focused feasibility study (ffs) for proposed hydraulic containment wall/system submitted May 08, in revision.	Final SCM TBD Interim SCM in-situ calcium polysulfide treatment conducted 2005/2006	EPA reviwed and commented on draft ffs July 08	Interim SCMs include in-situ calcium polysulfide treatment					
Arkema	398	7.2 W	6400 NW Front	Matt McClincy	Pre-PH VCP Formal Agr for RI/FS (9/98)	RI	08/20/08	Groundwater (Perchlorate Plume)	Completed		Completed April 07	Pathway is complete	High		EPA May 07 Completed	Draft focused feasibility study (ffs) for proposed hydraulic containment wall/system submitted May 08, in revision.		EPA reviwed and commented on draft ffs July 08	None					
Arkema	398	7.2 W	6400 NW Front	Matt McClincy	Pre-PH VCP Formal Agr for RI/FS (9/98)	RI	08/20/08	Overland Transport/Sheet Flow	Ongoing	Part of Stormwater FFS	DEQ currently reviewing	Waiting on SCE to be completed	to be determined	High	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Arkema	398	7.2 W	6400 NW Front	Matt McClincy	Pre-PH VCP Formal Agr for RI/FS (9/98)	RI	08/20/08	Bank Erosion	Completed			River Bank soil contaminant levels exceed action levels	p High		Anticipate integrating with EPA in-water early action process	schedule for completing draft evaluation report, TBD	Timing of SCM to be coordinated with EPA early action.		None					
Arkema	398	7.2 W	6400 NW Front	Matt McClincy	Pre-PH VCP Formal Agr for RI/FS (9/98)	RI	08/20/08	Stormwater	Completed			Contaminants in stormwater exceed screening values (AWQC)	p High		EPA review deferred to review of selected SCM	Draft stormwater focused feasibility study submitted July 2008	Final SCMs to be determined	EPA comments received July 08	Interim SCMs include BMPs, surface soil removals and surface soil caps					
Arkema	398	7.2 W	6400 NW Front	Matt McClincy	Pre-PH VCP Formal Agr for RI/FS (9/98)	RI	08/20/08	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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NW Natural - "Siltronic MGP" Site	183	6.6 W	7700 NW Front	Dana Bayuk	Joint NW Natural/Siltronic Order (10/00) & Amendment #1 (7/06) to Pre-PH VCP Agr for RI/FS (8/94)	RI	08/06/08	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NW Natural - "Siltronic MGP" Site	183	6.6 W	7700 NW Front	Dana Bayuk	Joint NW Natural/Siltronic Order (10/00) & Amendment #1 (7/06) to Pre-PH VCP Agr for RI/FS (8/94)	RI	08/06/08	Other - Doane Creek	Ongoing	Investigate COI contributions to Doane Creek & City's OF-22C per Siltronic MGP Site RI work plan	TBD pending results of bank soil, stream sediment, and surface water sampling proposed in RI	Pathway is complete	to be determined		Waiting on SCE to be completed										
Siltronic Corp. TCE Investigation	183	6.5 W	7200 NW Front	Dana Bayuk	VCP Order (2/04) & Joint NW Natural/Siltronic Order (10/00)	RI	08/06/08	Overland Transport/Sheet Flow	N/A	N/A, subsurface releases from UST system	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Siltronic Corp. TCE Investigation	183	6.5 W	7200 NW Front	Dana Bayuk	VCP Order (2/04) & Joint NW Natural/Siltronic Order (10/00)	RI	08/06/08	Bank Erosion	N/A	N/A, subsurface releases from UST system	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Siltronic Corp. TCE Investigation	183	6.5 W	7200 NW Front	Dana Bayuk	VCP Order (2/04) & Joint NW Natural/Siltronic Order (10/00)	RI	08/06/08	Groundwater	Completed	N/A, Siltronic moving forward with source control. SCM Evaluation submitted 10/07	N/A, Siltronic submitted SCM Evaluation	Pathway is complete	N/A, Siltronic submitted SCM Evaluation			SCM Evaluation (FFS) submitted 10/07, DEQ review complete (2/08)	Enhanced in-situ bioremediation in source area of TCE release, hydraulic containment in coordination with NW Natural along shoreline	EPA comments communicated to Siltronic 5/08			TBD pending approval of SCM design			
Siltronic Corp. TCE Investigation	183	6.5 W	7200 NW Front	Dana Bayuk	VCP Order (2/04) & Joint NW Natural/Siltronic Order (10/00)	RI	08/06/08	Stormwater	Ongoing	Complete storm water sampling per JSCS	Fall 2008	Pathway is complete	to be determined	High	Waiting on SCE to be completed										
Siltronic Corp. TCE Investigation	183	6.5 W	7200 NW Front	Dana Bayuk	VCP Order (2/04) & Joint NW Natural/Siltronic Order (10/00)	RI	08/06/08	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Siltronic Corp. TCE Investigation	183	6.5 W	7200 NW Front	Dana Bayuk	VCP Order (2/04) & Joint NW Natural/Siltronic Order (10/00)	RI	08/06/08	Other - Sediment contamination (Area 2) offshore of northern facility outfall (Outfall 001)	N/A	DEQ review of RI & Outfall Evaluation reports	Fall 2008	to be determined	to be determined		Waiting on SCE to be completed										
Willamette Cove	2066	6.8 E	Foot of N Edgewater	Ken Thiessen	PH Agr for RI/SCM (11/00)	RI	07/16/08	Overland Transport/Sheet Flow	Ongoing			Waiting for SCE to be completed	p Low		Waiting on SCE to be completed, 2008				Stabilization and removal of contaminated soil June 2008	600 cubic yards					
Willamette Cove	2066	6.8 E	Foot of N Edgewater	Ken Thiessen	PH Agr for RI/SCM (11/00)	RI	07/16/08	Bank Erosion	Ongoing	Performed second round of bank sampling 02/08	Oct 2008	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed, 2008										
Willamette Cove	2066	6.8 E	Foot of N Edgewater	Ken Thiessen	PH Agr for RI/SCM (11/00)	RI	07/16/08	Groundwater	Ongoing	Groundwater monitoring Completed	Oct 2008	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed, 2008										
Willamette Cove	2066	6.8 E	Foot of N Edgewater	Ken Thiessen	PH Agr for RI/SCM (11/00)	RI	07/16/08	Stormwater	N/A		NA	No site-related stormwater outfalls	none	Low	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Willamette Cove	2066	6.8 E	Foot of N Edgewater	Ken Thiessen	PH Agr for RI/SCM (11/00)	RI	07/16/08	Overwater Activities	N/A	N/A	N/A	No current source; likely historic sources	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Willamette Cove	2066	6.8 E	Foot of N Edgewater	Ken Thiessen	PH Agr for RI/SCM (11/00)	RI	07/16/08	Other - in river (beach area removal)	Completed			Suspected migration pathway	Low		EPA reviewed and commented	alternatives evaluation completed 2004	Source removal completed in river 10/2004	deferred to in-water RI						
Rhone Poulenc	155	6.9 W	6200 NW St Helens	Dave Lacey	Pre-PH Order for RI (1999)	RI	08/20/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rhone Poulenc	155	6.9 W	6200 NW St Helens	Dave Lacey	Pre-PH Order for RI (1999)	RI	08/20/08	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rhone Poulenc	155	6.9 W	6200 NW St Helens	Dave Lacey	Pre-PH Order for RI (1999)	RI	08/20/08	Groundwater (plume discharge to river)	Ongoing	SCE Report and Alternatives Analysis	Interim measures planned 08; SCE Report in revision - 1st Qtr '09	Pathway is complete	p High		Waiting on SCE to be completed	schedule for completing draft SCE report Winter 08									

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Confirmed or suspected sources of contamination to the river								Source Control Evaluation (SCE)							Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed											
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Chevron Asphalt	1281	8.0 W	5501 NW Front	Mark Pugh	PH Letter Agr for XPA (1/03), new agreement being negotiated	XPA	06/16/08	Groundwater	Ongoing	Data screening	Spring/summer 2008		p Low	p Low	Waiting on SCE to be completed.	Spring/summer 2008								
Chevron Asphalt	1281	8.0 W	5501 NW Front	Mark Pugh	PH Letter Agr for XPA (1/03), new agreement being negotiated	XPA	06/16/08	Stormwater	Ongoing	SCE sampling appears adequate to complete SCE Evaluation. Chevron is preparing SCE evlaluation. For DEQ review	Spring/summer 2008	Waiting on SCE to be completed	p Low		Waiting on SCE to be completed.	Spring/summer 2008		Waiting on SCE to be completed.	BMPs such as catch basin inserts, inspection and catch basin cleanout on periodic basis; storm line segments cleaned.	approximately 1 ton of catch basin and in-line solids removed to date.	TBD			
Chevron Asphalt	1281	8.0 W	5501 NW Front	Mark Pugh	PH Letter Agr for XPA (1/03)	XPA	06/16/08	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chevron Asphalt	1281	8.0 W	5501 NW Front	Mark Pugh	PH Letter Agr for XPA (1/03)	XPA	06/16/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front Ave LP	1239	8.1 W	4950, 5034 & 5200 NW Front	Mike Romero	VCP Letter Agr for PA (1/02)	RI	08/06/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	p Low	NA									
Front Ave LP	1239	8.1 W	4950, 5034 & 5200 NW Front	Mike Romero	VCP Letter Agr for PA (1/02)	RI	08/06/08	Bank Erosion	Ongoing	Conducting XPA and SCE	2nd Qtr 2009	Waiting on SCE to be completed	p Low		Waiting on SCE to be completed.									
Front Ave LP	1239	8.1 W	4950, 5034 & 5200 NW Front	Mike Romero	VCP Letter Agr for PA (1/02)	RI	08/06/08	Groundwater	Ongoing	Conducting XPA and SCE	2nd Qtr 2009	Waiting on SCE to be completed	p Low		Waiting on SCE to be completed.									
Front Ave LP	1239	8.1 W	4950, 5034 & 5200 NW Front	Mike Romero	VCP Letter Agr for PA (1/02)	RI	08/06/08	Stormwater	Ongoing	Conducting XPA, additional sampling needed for SCE completion	2nd Qtr 2009	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed.									
Front Ave LP	1239	8.1 W	4950, 5034 & 5200 NW Front	Mike Romero	VCP Letter Agr for PA (1/02)	RI	08/06/08	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front Ave LP	1239	8.1 W	4950, 5034 & 5200 NW Front	Mike Romero	VCP Letter Agr for PA (1/02)	RI	08/06/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Glacier Northwest Inc.	2378		5034 NW Front Ave	Mike Romero	Part of Front Ave LP site, see ESCI #1239			Overland Transport/Sheet Flow															
Glacier Northwest Inc.	2378		5034 NW Front Ave	Mike Romero				Bank Erosion																
Glacier Northwest Inc.	2378		5034 NW Front Ave	Mike Romero				Groundwater																
Glacier Northwest Inc.	2378		5034 NW Front Ave	Mike Romero				Stormwater																
Glacier Northwest Inc.	2378		5034 NW Front Ave	Mike Romero				Overwater Activities																
Glacier Northwest Inc.	2378		5034 NW Front Ave	Mike Romero				Other																
USCG	1338	8.2 E	6767 N Basin Ave.	Tom Gainer	VCP Letter Agr (2/04)	RI	08/20/08	Overland Transport/Sheet Flow	Ongoing		3rd Qtr 2008	Insignificant pathway; no actions recommended	p Low	p Med	Waiting on SCE to be completed.									
USCG	1338	8.2 E	6767 N Basin Ave.	Tom Gainer	VCP Letter Agr (2/04)	RI	08/20/08	Bank Erosion	Ongoing		3rd Qtr 2008	Insignificant pathway; no actions recommended	p Low		Waiting on SCE to be completed.									
USCG	1338	8.2 E	6767 N Basin Ave.	Tom Gainer	VCP Letter Agr (2/04)	RI	08/20/08	Groundwater	Ongoing		3rd Qtr 2008	Insignificant pathway; no actions recommended	p Low		Waiting on SCE to be completed.									
USCG	1338	8.2 E	6767 N Basin Ave.	Tom Gainer	VCP Letter Agr (2/04)	RI	08/20/08	Stormwater	Ongoing	Sampling stormwater system	3rd Qtr 2008	Waiting on SCE to be completed	p Med		Waiting on SCE to be completed.	Stormwater appears to be a problem & BMPs need to be implemented & followed-up with performance monitoring								
USCG	1338	8.2 E	6767 N Basin Ave.	Tom Gainer	VCP Letter Agr (2/04)	RI	08/20/08	Overwater Activities	Ongoing		3rd Qtr 2008	No known current sources (spills will be reported to OERS)	Low		Waiting on SCE to be completed.									
USCG	1338	8.2 E	6767 N Basin Ave.	Tom Gainer	VCP Letter Agr (2/04)	RI	08/20/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fred Devine	2365	8.3 E	6211 N Ensign	Karen Tarnow	VCP Letter Agreement 11/06	XPA	07/15/08	Overland Transport/Sheet Flow	N/A	screening	No current schedule.	No known current sources (spills will be reported to OERS)	none		N/A									
Fred Devine	2365	8.3 E	6211 N Ensign	Karen Tarnow	VCP Letter Agreement 11/06	XPA	07/15/08	Bank Erosion	N/A	N/A	No current schedule.	No known current sources (spills will be reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fred Devine	2365	8.3 E	6211 N Ensign	Karen Tarnow	VCP Letter Agreement 11/06	XPA	07/15/08	Groundwater	N/A	N/A	No current schedule.	No known current sources (spills will be reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Confirmed or suspected sources of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Fred Devine	2365	8.3 E	6211 N Ensign	Karen Tarnow	VCP Letter Agreement 11/06	XPA	07/15/08	Stormwater	Ongoing	Review draft SCE	Under review	to be determined	p Low	p Low	Waiting on SCE to be completed.				BMPs such as catch basin inserts, inspection and catch basin cleanout on periodic basis					
Fred Devine	2365	8.3 E	6211 N Ensign	Karen Tarnow	VCP Letter Agreement 11/06	XPA	07/15/08	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fred Devine	2365	8.3 E	6211 N Ensign	Karen Tarnow	VCP Letter Agreement 11/06	XPA	07/15/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schnitzer Kittridge	2442	8.3 W	4959 NW Front	Matt McClincy	PH Letter Agr for XPA (9/00)	XPA	03/13/06	Overland Transport/Sheet Flow	Completed			Insignificant pathway; no actions recommended	Low	Low	EPA reviewed and commented 8/2002		No SCM needed							
Schnitzer Kittridge	2442	8.3 W	4959 NW Front	Matt McClincy	PH Letter Agr for XPA (9/00)	XPA	03/13/06	Bank Erosion	N/A			N/A	none		EPA reviewed and commented 8/2002		No SCM needed							
Schnitzer Kittridge	2442	8.3 W	4959 NW Front	Matt McClincy	PH Letter Agr for XPA (9/00)	XPA	03/13/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented 8/2002		No SCM needed							
Schnitzer Kittridge	2442	8.3 W	4959 NW Front	Matt McClincy	PH Letter Agr for XPA (9/00)	XPA	03/13/06	Stormwater	Completed			Insignificant pathway; possible historic source	Low		EPA reviewed and commented 8/2002		No SCM needed							
Schnitzer Kittridge	2442	8.3 W	4959 NW Front	Matt McClincy	PH Letter Agr for XPA (9/00)	XPA	03/13/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Schnitzer Kittridge	2442	8.3 W	4959 NW Front	Matt McClincy	PH Letter Agr for XPA (9/00)	XPA	03/13/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Freightliner Truck Plant	2366	8.4 E	6936 N Fathom	Mike Romero	PH Agr for RI/SCM (12/02)	RI	08/06/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	p Low	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Freightliner Truck Plant	2366	8.4 E	6936 N Fathom	Mike Romero	PH Agr for RI/SCM (12/02)	RI	08/06/08	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Freightliner Truck Plant	2366	8.4 E	6936 N Fathom	Mike Romero	PH Agr for RI/SCM (12/02)	RI	08/06/08	Groundwater	Ongoing	determine nature and extent of VOC plume	4th Qtr 2008	Waiting on SCE/RI report to be completed	p Low		Waiting on SCE/RI to be completed.									
Freightliner Truck Plant	2366	8.4 E	6936 N Fathom	Mike Romero	PH Agr for RI/SCM (12/02)	RI	08/06/08	Stormwater	Ongoing	SW evaluation started 07'	2nd Qtr 09	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed.		RP voluntarily applying SW engineering controls on Ensign Street Outfall; coating metal roof; stormwater system sediment cleanout 06-07' prior to completing screening							
Freightliner Truck Plant	2366	8.4 E	6936 N Fathom	Mike Romero	PH Agr for RI/SCM (12/02)	RI	08/06/08	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Freightliner Truck Plant	2366	8.4 E	6936 N Fathom	Mike Romero	PH Agr for RI/SCM (12/02)	RI	08/06/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lakeside Industries	2372	8.4 W	4850 NW Front	Jim Orr	PH Letter Agr for XPA (3/02)	XPA	01/15/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	p Low	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lakeside Industries	2372	8.4 W	4850 NW Front	Jim Orr	PH Letter Agr for XPA (3/02)	XPA	07/15/08	Bank Erosion	Completed			Insignificant pathway; no actions recommended	p Low		Waiting on SCE completion									
Lakeside Industries	2372	8.4 W	4850 NW Front	Jim Orr	PH Letter Agr for XPA (3/02)	XPA	07/15/08	Groundwater	Ongoing	DEQ review of SCE data and source control determination, 3/25/08 117 gallon oil release, release stopped and under investigation	to be determined	Waiting on SCE to be completed	p Low		Waiting on SCE completion		UIC closures in 2003							
Lakeside Industries	2372	8.4 W	4850 NW Front	Jim Orr	PH Letter Agr for XPA (3/02)	XPA	07/15/08	Stormwater	Ongoing	Initiate stormwater evaluation	SOW currently being implemented Spring 2009	Waiting on SCE to be completed	to be determined		Waiting on SCE completion		Interim SCM: stormwater UICs closure in 2003							
Lakeside Industries	2372	8.4 W	4850 NW Front	Jim Orr	PH Letter Agr for XPA (3/02)	XPA	07/15/08	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lakeside Industries	2372	8.4 W	4850 NW Front	Jim Orr	PH Letter Agr for XPA (3/02)	XPA	07/15/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Site information					Project status							Basis for determination that source control is needed											
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Shaver Transportation	2377	8.4 W	4900 NW Front	Mark Pugh	PH Letter Agr for XPA (3/01)	NFA	03/03/06	Bank Erosion	Completed			Insignificant pathway; no actions recommended	Low	Low	EPA reviewed and commented, 8/2002		No SCM needed							
Shaver Transportation	2377	8.4 W	4900 NW Front	Mark Pugh	PH Letter Agr for XPA (3/01)	NFA	03/03/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented, 8/2002		No SCM needed							
Shaver Transportation	2377	8.4 W	4900 NW Front	Mark Pugh	PH Letter Agr for XPA (3/01)	NFA	03/03/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented, 8/2002		No SCM needed							
Shaver Transportation	2377	8.4 W	4900 NW Front	Mark Pugh	PH Letter Agr for XPA (3/01)	NFA	03/03/06	Overwater Activities	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented, 8/2002		No SCM needed							
Shaver Transportation	2377	8.4 W	4900 NW Front	Mark Pugh	PH Letter Agr for XPA (3/01)	NFA	03/03/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Calbag Metals	2454	8.5 W	4927 NW Front	Tom Gainer	PH Letter Agr for XPA (1/01)	XPA	03/06/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Calbag Metals	2454	8.5 W	4927 NW Front	Tom Gainer	PH Letter Agr for XPA (1/01)	XPA	03/06/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Calbag Metals	2454	8.5 W	4927 NW Front	Tom Gainer	PH Letter Agr for XPA (1/01)	XPA	03/06/06	Groundwater	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Calbag Metals	2454	8.5 W	4927 NW Front	Tom Gainer	PH Letter Agr for XPA (1/01)	XPA	03/06/06	Stormwater	Completed			Pathway is complete	Medium	Medium	EPA reviewed and commented on preliminary SCD, 6/2004	alternatives evaluation completed, submitted to EPA 9/2005	stormwater catch basin in-line cleanout, stormwater BMPs, monitoring	SCM SCD finalized 11/2005, EPA commented	stormwater catch basin in-line cleanout, stormwater BMPs, monitoring		ongoing stormwater monitoring through spring 2008			
Calbag Metals	2454	8.5 W	4927 NW Front	Tom Gainer	PH Letter Agr for XPA (1/01)	XPA	03/06/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Calbag Metals	2454	8.5 W	4927 NW Front	Tom Gainer	PH Letter Agr for XPA (1/01)	XPA	03/06/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Texaco Product Pipeline	2117	8.7W	4500 Block Front Ave.	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	01/25/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Texaco Product Pipeline	2117	8.7W	4500 Block Front Ave.	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	01/25/08	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Texaco Product Pipeline	2117	8.7W	4500 Block Front Ave.	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	01/25/08	Groundwater	Ongoing	Additional Characterization Required on Guilds Lake Rail Yard - Expect additional investigation to be completed late 2008	To be determined	Waiting on SCE to be completed	p Low	p Low	Waiting for SCE to be completed.									
Texaco Product Pipeline	2117	8.7W	4500 Block Front Ave.	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	01/25/08	Stormwater	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Texaco Product Pipeline	2117	8.7W	4500 Block Front Ave.	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	01/25/08	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Texaco Product Pipeline	2117	8.7W	4500 Block Front Ave.	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	01/25/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Container Recovery	4015	8.8W	3900 NW Yeon	Jim Orr	Pre-PH VCP Letter Agr for RI/FS	conditional NFA 2004	01/25/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Container Recovery	4015	8.8W	3900 NW Yeon	Jim Orr	Pre-PH VCP Letter Agr for RI/FS	conditional NFA 2004	01/25/08	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Container Recovery	4015	8.8W	3900 NW Yeon	Jim Orr	Pre-PH VCP Letter Agr for RI/FS	conditional NFA 2004	01/25/08	Groundwater	Completed			Insignificant pathway; no actions recommended	Low	Low	N/A		No SCM needed							
Container Recovery	4015	8.8W	3900 NW Yeon	Jim Orr	None	conditional NFA 2004	01/25/08	Stormwater	Ongoing	Waiting for DEQ project manager to be assignted	No current schedule.	Waiting on SCE to be completed	to be determined		Waiting on SCE completion									
Container Recovery	4015	8.8W	3900 NW Yeon	Jim Orr	Pre-PH VCP Letter Agr for RI/FS	conditional NFA 2004	01/25/08	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Container Recovery	4015	8.8W	3900 NW Yeon	Jim Orr	Pre-PH VCP Letter Agr for RI/FS	conditional NFA 2004	01/25/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Christensen Oil	2426	8.9 W	3821 NW St Helens	Tom Gainer	VCP Letter Agr for PA (8/00)	XPA	12/10/07	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Christensen Oil	2426	8.9 W	3821 NW St Helens	Tom Gainer	VCP Letter Agr for PA (8/00)	XPA	12/10/07	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table 1: DEQ Milestone Report
Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

Confirmed or suspected sources of contamination to the river								Source Control Evaluation (SCE)							Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed											
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Portland Shipyard	271	8.4 E	Swan Island	Jennifer Sutter	Voluntary Agreement (6/06)	RI	06/25/08	Bank Erosion	Ongoing	RI essentially completed. Eco risk scoping submitted June 2008. HH Risk Assessment to be prepared. No shoreline contamination indicated.	Fall 2008	Waiting on SCE to be completed	p Med	p Med	Waiting on SCE to be completed.									
Portland Shipyard	271	8.4 E	Swan Island	Jennifer Sutter	Voluntary Agreement (6/06)	RI	11/29/06	Bank Erosion - N Channel Ave Fab Area	Ongoing	Shoreline sampling completed in vicinity of stormwater outfall. Need for additional OF-related shoreline sampling identified.	Fall 2008	Waiting on SCE to be completed	p Med		Waiting on SCE to be completed.									
Portland Shipyard	271	8.4 E	Swan Island	Jennifer Sutter	Voluntary Agreement (6/06)	RI	06/25/08	Groundwater	Ongoing	Additional gw sampling completed.Eco risk scoping submitted June 2008. HH Risk assessment under development.	Fall 2008	Waiting on SCE to be completed	p Med		Waiting on SCE to be completed.									
Portland Shipyard	271	8.4 E	Swan Island	Jennifer Sutter	Voluntary Agreement (6/06)	RI	11/29/06	Groundwater - N Channel Ave Fab Area	Ongoing	Additional gw investigation completed. Risk assessment to be prepared.	Fall 2008	Waiting on SCE to be completed	p Med		Waiting on SCE to be completed.									
Portland Shipyard	271	8.4 E	Swan Island	Jennifer Sutter	Letter Agreement wi/Vigor Industrial (5/06)	RI	06/25/08	Stormwater	Ongoing	Stormwater catch basin sampling report submitted. Stormwater sampling plan proposed; workplan under development.	Fall 2008	Waiting on report on first step of SCE Workplan	p Med		Waiting on SCE to be completed.									
Portland Shipyard	271	8.4 E	Swan Island	Jennifer Sutter	Voluntary Agreement (6/06)	RI	11/29/06	Stormwater - N Channel Ave Fab Area	Ongoing	Risk assessment workplan approved with comment	Fall 2008	Waiting on SCE to be completed	p Med		Waiting on SCE to be completed.									
Portland Shipyard	271	8.4 E	Swan Island	Jennifer Sutter	Voluntary Agreement (6/06)	RI	11/29/06	Overwater Activities	N/A	N/A	N/A	No known current sources (spills will be reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Portland Shipyard	271	8.4 E	Swan Island	Jennifer Sutter	Voluntary Agreement (6/06)	RI	11/29/06	Overwater Activities - N Channel Ave Fab Area	N/A	N/A	N/A	No known current sources (spills will be reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Portland Shipyard	271	8.4 E	Swan Island	Jennifer Sutter	Voluntary Agreement (6/06)	RI	11/29/06	Overland Transport/Sheet Flow	Ongoing	Being addressed as part of stormwater eval.	Spring 2009	Waiting on SCE to be completed	p Low		Waiting on SCE to be completed.									
Portland Shipyard	271	8.4 E	Swan Island	Jennifer Sutter	Voluntary Agreement (6/06)	RI	11/29/06	Overland Transport/Sheet Flow - N Channel Ave Fab Area	Ongoing	Risk assessment workplan approved with comment. Overland flow path to river is through stormwater system.	Fall 2008	Waiting on SCE to be completed	p Med		Waiting on SCE to be completed.									
Mt Hood Chemicals	81	8.5 W	4444 NW Yeon	Jim Orr	Agreement for Stormwater Assessment & Source Control	Negoitiating Agr	08/27/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	N/A	TBD	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mt Hood Chemicals	81	8.5W	4444 NW Yeon	Jim Orr	Agreement for Stormwater Assessment & Source Control	Negotiating Agr	08/27/08	Bank Erosion	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mt Hood Chemicals	81	8.5W	4444 NW Yeon	Jim Orr	Agreement for Stormwater Assessment & Source Control	Negotiating Agr	08/27/08	Groundwater	Not Started		SOW under development, due 9/30/08	Waiting on SCE to be completed	to be determined											
Mt Hood Chemicals	81	8.5W	4444 NW Yeon	Jim Orr	Agreement for Stormwater Assessment & Source Control	Negotiating Agr	08/27/08	Stormwater	Not Started		SOW under development, due 9/30/08	Waiting on SCE to be completed	to be determined											
Mt Hood Chemicals	81	8.5W	4444 NW Yeon	Jim Orr	Agreement for Stormwater Assessment & Source Control	Negotiating Agr	08/27/08	Overwater Activities	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mt Hood Chemicals	81	8.5W	4444 NW Yeon	Jim Orr	Agreement for Stormwater Assessment & Source Control	Negotiating Agr	08/27/08	Other	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Forest Park	2406	8.5	4400 Block Street	Karen Tarnow	PPA	RI	07/15/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	p Low	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
PGE Forest Park	2406	8.5	4400 Block Street	Karen Tarnow	PPA	RI	07/15/08	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Forest Park	2406	8.5	4400 Block Street	Karen Tarnow	PPA	RI	07/15/08	Groundwater	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Forest Park	2406	8.5	4400 Block Street	Karen Tarnow	PPA	RI	07/15/08	Stormwater	Ongoing	Storm line investigation report submitted 5/07	4th Qtr 2008	Waiting on SCE to be completed	p Low		Waiting on SCE to be completed									
PGE Forest Park	2406	8.5W	4400 Block Street	Karen Tarnow	PPA	RI	07/15/08	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Forest Park	2406	8.5W	4400 Block Street	Karen Tarnow	PPA	RI	07/15/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Shaver Transportation	2377	8.4 W	4900 NW Front	Mark Pugh	PH Letter Agr for XPA (3/01)	NFA	03/03/06	Overland Transport/Sheet Flow	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented, 8/2002		No SCM needed							

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Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

Confirmed or suspected sources of contamination to the river								Source Control Evaluation (SCE)							Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed											
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Christensen Oil	2426	8.9 W	3821 NW St Helens	Tom Gainer	VCP Letter Agr for PA (8/00)	XPA	12/10/07	Groundwater	N/A	N/A	N/A	N/A	none	p Med	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Christensen Oil	2426	8.9 W	3821 NW St Helens	Tom Gainer	VCP Letter Agr for PA (8/00)	XPA	12/10/07	Stormwater	Ongoing	Storm water sampling per JSCS	To be determined	Waiting on SCE to be completed	p Med		Waiting on SCE to be completed;		Storm water BMPs and filtering catch basin sediment							
Christensen Oil	2426	8.9 W	3821 NW St Helens	Tom Gainer	VCP Letter Agr for PA (8/00)	XPA	12/10/07	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Christensen Oil	2426	8.9 W	3821 NW St Helens	Tom Gainer	VCP Letter Agr for PA (8/00)	XPA	12/10/07	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Texaco Terminal	169	8.9 W	3800 NW St Helens	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	01/25/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	p Low	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Texaco Terminal	169	8.9 W	3800 NW St Helens	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	01/25/08	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Texaco Terminal	169	8.9 W	3800 NW St Helens	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	01/25/08	Groundwater	Ongoing	RP needs to revise RI and SCE report	Summer 2009	Waiting on SCE to be completed	p Low		Waiting for SCE to be completed.									
Texaco Terminal	169	8.9 W	3800 NW St Helens	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	01/25/08	Stormwater	Ongoing	Initial stormwater characterization in progress	Summer 2009	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed									
Texaco Terminal	169	8.9 W	3800 NW St Helens	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	01/25/08	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Texaco Terminal	169	8.9 W	3800 NW St Helens	Matt McClincy	PH Agr for RI/SCM (8/00)	RI	08/20/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Anderson Brothers Property	970	8.9W	5275 & 5315 NW St. Helens Rd.	Bob Schwarz	ICP	CNFA	08/20/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	p Low	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Anderson Brothers Property	970	8.9W	5275 & 5315 NW St. Helens Rd.	Bob Schwarz	ICP	CNFA	08/20/08	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Anderson Brothers Property	970	8.9W	5275 & 5315 NW St. Helens Rd.	Bob Schwarz	ICP	CNFA	08/20/08	Groundwater	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Anderson Brothers Property	970	8.9W	5275 & 5315 NW St. Helens Rd.	Bob Schwarz	ICP	RI	08/20/08	Stormwater	Ongoing	Stormwater line cleanout and BMPs implemented - Effectiveness monitoring ongoing	Fall 2008	Waiting on SCE to be completed - schedule to be determined	p Low		Wainting on SCE to be completed									
Anderson Brothers Property	970	8.9W	5275 & 5315 NW St. Helens Rd.	Bob Schwarz	ICP	CNFA	08/20/08	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Anderson Brothers Property	970	8.9W	5275 & 5315 NW St. Helens Rd.	Bob Schwarz	ICP	CNFA	08/20/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Vanwater and Rogers (Univar)	330	9W	3950 NW Yeon Ave	EPA lead; Howard Orlean	RCRA Coreective Action Order	Corrective Measures Implementation	12/21/07	Overland Transport/Sheet Flow	N/A	NA	NA	NA	None	to be determined	N/A									
Vanwater and Rogers (Univar)	330	9W	3950 NW Yeon Ave	EPA lead; Howard Orlean	RCRA Corrective Action Order	Corrective Measures Implementation	12/21/07	Bank Erosion	N/A	NA	NA	NA	None		N/A									
Vanwater and Rogers (Univar)	330	9W	3950 NW Yeon Ave	EPA lead; Howard Orlean	RCRA Corrective Action Order	Corrective Measures Implementation	12/21/07	Groundwater	Completed			Groundwater under control			NA	Corrective Measures Study Completed 4/21/06	Soil Vapor Extraction and Groundwater Pump and Treat	Completed	Soil Vapor Extraction and Groundwater Pump and Treat	468,000 lbs	Optimization of SVE and Groundwater Extraction Systems/2008 through 2010			Ongoing maintenance of SVE wells, extraction wells and treatment system
Vanwater and Rogers (Univar)	330	9W	3950 NW Yeon Ave	EPA lead; Howard Orlean	RCRA Corrective Action Order	Corrective Measures Implementation	12/21/07	Stormwater	Ongoing	Stormwaer Pathway Evaluation	3rd quarter 2009	Waiting on SCE to be completed			NA	4th quarter 2009								
Vanwater and Rogers (Univar)	330	9W	3950 NW Yeon Ave	EPA lead; Howard Orlean	RCRA Corrective Action Order	Corrective Measures Implementation	12/21/07	Overwater Activities	N/A	NA	NA	NA	None		NA									
Vanwater and Rogers (Univar)	330	9W	3950 NW Yeon Ave	EPA lead; Howard Orlean	RCRA Corrective Action Order	Corrective Measures Implementation	12/01/07	Other																
Guilds Lake RR Yard	100	9.0 W	3500 NW Yeon	Mike Romero	PH Agr for RI/SCM (12/02)	RI	08/06/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	p Low	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Guilds Lake RR Yard	100	9.0 W	3500 NW Yeon	Mike Romero	PH Agr for RI/SCM (12/02)	RI	08/06/08	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Guilds Lake RR Yard	100	9.0 W	3500 NW Yeon	Mike Romero	PH Agr for RI/SCM (12/02)	RI	08/06/08	Groundwater	Ongoing	GW Investigation ongoing	2006 Pre-RI report identified some sources; full SCE schedule to be determined fall 08	Waiting on SCE to be completed	p Low		Waiting on SCE to be completed									

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Site information					Project status							Basis for determination that source control is needed											
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Guilds Lake RR Yard	100	9.0 W	3500 NW Yeon	Mike Romero	PH Agr for RI/SCM (12/02)	RI	08/06/08	Stormwater	Ongoing	SW Investigation ongoing;	2006 Pre-RI report identified some sources; SW evaluation to begin 2008	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed									
Guilds Lake RR Yard	100	9.0 W	3500 NW Yeon	Mike Romero	PH Agr for RI/SCM (12/02)	RI	08/06/08	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Guilds Lake RR Yard	100	9.0 W	3500 NW Yeon	Mike Romero	PH Agr for RI/SCM (12/02)	RI	08/06/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gunderson	1155	9.0 W	4350 SW Front	Dana Bayuk	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	08/06/08	Overland Transport/Sheet Flow - Area 1	N/A	N/A, entirely paved and/or developed	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gunderson	1155	9.0 W	4350 SW Front	Dana Bayuk	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	08/06/08	Overland Transport/Sheet Flow - Area 2	Ongoing	DEQ review of Focused Area 2 RI report & source control screening	TBD pending DEQ's review of Focused Area 2 RI report	Pathway is complete	p High		Waiting on SCE to be completed.									
Gunderson	1155	9.0 W	4350 SW Front	Dana Bayuk	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	08/06/08	Overland Transport/Sheet Flow - Area 3	Ongoing	DEQ review of Focused Area 3 RI report & source control screening	TBD pending DEQ's review of Area 3 RI report	Pathway is complete	p High		Waiting on SCE completion									
Gunderson	1155	9.0 W	4350 SW Front	Dana Bayuk	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	08/06/08	Bank Erosion - Area 1	Ongoing	Survey of erodible soils, follow-up sampling	No current schedule.	Waiting on SCE to be completed	to be determined		Waiting on SCE completion									
Gunderson	1155	9.0 W	4350 SW Front	Dana Bayuk	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	08/06/08	Bank Erosion - Area 2	Completed			Pathway is complete	High			TBD pending DEQ's review of RI report & Gunderson recommendations.	Final SCMs TBD. Interim SCMs being considered: excavation of soil/blastsand grit, engineered sediment/grit traps, selected area revegetation, and additional operations reviews & improvements.		Interim SCM currently includes shrouding work areas during barge welding & sandblasting.					
Gunderson	1155	9.0 W	4350 SW Front	Dana Bayuk	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	08/06/08	Bank Erosion - Area 3	Completed			Pathway is complete	High			TBD pending DEQ's review of RI report & Gunderson recommendations.	Final SCMs TBD. Interim SCMs being considered include soil excavation, selected area revegetation, and engineered bank stabilization.							
Gunderson	1155	9.0 W	4350 SW Front	Dana Bayuk	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	08/06/08	Overwater Activities - Area 3	N/A	N/A	N/A	No known current sources (spills will be reported to OERS)	none	p High	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gunderson	1155	9.0 W	4350 SW Front	Dana Bayuk	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	08/06/08	Groundwater - Area 1	Completed	N/A, SCE submitted to EPA February 2003, SCMs implemented	N/A	Groundwater is a complete pathway, VOC plume migrating to/under river.	p Med		EPA comments received 5/03	Alternatives evaluation completed, EPA comments received 5/2003	Hydraulic containment and source removal using air-sparging/soil vapor extraction (AS/SVE)	SCD submitted to EPA 2/2003, EPA comments received 5/2003	P&T and AS/SVE systems installed and operating	~40 lbs. of HVOCs removed as of 7/07	Conduct SCMs effectiveness evaluation(s). Schedule TBD.			Quarterly performance monitoring and reporting
Gunderson	1155	9.0 W	4350 SW Front	Dana Bayuk	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	08/06/08	Groundwater - Area 2	Ongoing	DEQ review of Focused Area 2 RI report & source control screening	TBD pending DEQ's review of Focused Area 2 RI report	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed.									
Gunderson	1155	9.0 W	4350 SW Front	Dana Bayuk	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	08/06/08	Groundwater - Area 3	Ongoing	DEQ review of Focused Area 3 RI report & source control screening	TBD pending DEQ's review of Area 3 RI report	Pathway is complete	p High		Waiting on SCE to be completed.									
Gunderson	1155	9.0 W	4350 SW Front	Dana Bayuk	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	08/06/08	Stormwater - Area 1	Ongoing	Review stormwater sampling plan (10/07) and catch basin sediment sampling report (01/08)	TBD	Waiting on SCE to be completed	to be determined		Waiting on SCE to be completed.		Interim SCMs being considered include, parking lot run-off collection/treatment in landscaped areas		Current BMPs include catch basin filter inserts & annual clean-out of catch basins					

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Confirmed or suspected sources of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Gunderson	1155	9.0 W	4350 SW Front	Dana Bayuk	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	08/06/08	Stormwater - Area 2	Ongoing	Review stormwater sampling plan (10/07) and catch basin sediment sampling report (01/08)	TBD	Pathway is complete	p High		Waiting on SCE to be completed.		Interim SCMs being considered include, legacy sediment piping cleanouts and outfall replacement		Current BMPs include catch basin filter inserts, annual clean-out of catch basins & oil-water separators.					
Gunderson	1155	9.0 W	4350 SW Front	Dana Bayuk	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	08/06/08	Stormwater - Area 3	Completed			Pathway is complete	High			TBD pending DEQ's review of RI report and fall 2006 storm water system sampling report (10/07)	Final SCMs TBD & interim SCMs being considered include, additional paving, legacy sediment piping cleanouts, and outfall realignment & replacement		Current BMPs include catch basin filter inserts, annual clean-out of catch basins, and paving. Improvments to piping and storm water treatment completed in subasin WR377.					
Gunderson	1155	9.0 W	4350 SW Front	Dana Bayuk	Pre-PH VCP Formal Agr for RI/FS (1994)	RI	08/06/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Freightliner (Parts Mfg Plant)	115	9.2 E	5400 N Basin	Mike Romero	PH Agr for RI/SCM (12/02)	RI	08/06/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Freightliner (Parts Mfg Plant)	115	9.2 E	5400 N Basin	Mike Romero	PH Agr for RI/SCM (12/02)	RI	08/06/08	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Freightliner (Parts Mfg Plant)	115	9.2 E	5400 N Basin	Mike Romero	PH Agr for RI/SCM (12/02)	RI	08/06/08	Groundwater	Ongoing	GW investigation nearing completion	2nd Qtr 2008	Waiting on SCE/RI to be completed	p Low											
Freightliner (Parts Mfg Plant)	115	9.2 E	5400 N Basin	Mike Romero	PH Agr for RI/SCM (12/02)	RI	08/06/08	Stormwater	Ongoing	Additional stormwater sampling needed	SW system cleancut completed 07', SW sampling ongoing	Waiting on SCE to be completed	to be determined	p Low			RP voluntary cleanout of stormwater system prior to completing screening							
Freightliner (Parts Mfg Plant)	115	9.2 E	5400 N Basin	Mike Romero	PH Agr for RI/SCM (12/02)	RI	08/06/08	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Freightliner (Parts Mfg Plant)	115	9.2 E	5400 N Basin	Mike Romero	PH Agr for RI/SCM (12/02)	RI	08/06/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Container Management	4784	9.3W	3000 NW St Helens Rd	Jim Orr			07/15/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Container Management	4784	9.3W	3000 NW St Helens Rd	Jim Orr			07/15/08	Bank Erosion	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Container Management	4784	9.3W	3000 NW St Helens Rd	Jim Orr			07/15/08	Groundwater	Not Started		No current schedule.	Waiting on SCE to be completed	to be determined	to be determined	Waiting on SCE completion (m-y)										
Container Management	4784	9.3W	3000 NW St Helens Rd	Jim Orr	Leter Agreement for Stormwater Assessment and Source Control 5/26/08		07/15/08	Stormwater	Ongoing		SOW under development, due (8/2008).	Waiting on SCE to be completed	to be determined		Waiting on SCE completion (m-y)										
Container Management	4787	9.3W	3000 NW St Helens Rd	Jim Orr			07/15/08	Overwater Activities	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Container Management	4784	9.3W	3000 NW St Helens Rd	Jim Orr			07/15/08	Other			No current schedule.	Waiting on SCE to be completed	to be determined		Waiting on SCE completion (m-y)										
Columbia American Plating	29	9.3W	3003 NW 35th Ave	Mark Pugh	Negotiating PPA	Negotiating PPA	06/16/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Columbia American Plating	29	9.3W	3003 NW 35th Ave	Mark Pugh	Negotiating PPA	Negotiating PPA	06/16/08	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Columbia American Plating	29	9.3W	3003 NW 35th Ave	Mark Pugh	Negotiating PPA	Negotiating PPA	06/16/08	Groundwater	Not Started		No current schedule; pending PPA development	Waiting on SCE to be completed	p Low		N/A										
Columbia American Plating	29	9.3W	3003 NW 35th Ave	Mark Pugh	Negotiating PPA	Negotiating PPA	06/16/08	Stormwater	Not Started	Installation and sampling of storm drain, soil sampling.	No current schedule; pending PPA development	Waiting on SCE to be completed	p Low		N/A										

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Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Columbia American Plating	29	9.3W	3003 NW 35th Ave	Mark Pugh	Negotiating PPA	Negotiating PPA	06/16/08	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Columbia American Plating	29	9.3W	3003 NW 35th Ave	Mark Pugh	Negotiating PPA	Negotiating PPA	06/16/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wilhelm Trucking	4784	9.3W	3250 and 3074 NW St. Helens Road	Jim Orr	Leter Agreement for Stormwater Assessment and Source Control 5/26/08		07/15/08	Overland Transport/Sheet Flow	Not Started		SOW under development, due (9/30/08).	Waiting on SCE to be completed	to be determined	to be determined	Waiting on SCE completion (m-y)									
Wilhelm Trucking	69	9.3W	3250 and 3074 NW St. Helens Road	Jim Orr			07/15/08	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wilhelm Trucking	69	9.3W	3251 and 3074 NW St. Helens Road	Jim Orr			07/15/08	Groundwater	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wilhelm Trucking	69	9.3W	3252 and 3074 NW St. Helens Road	Jim Orr	Leter Agreement for Stormwater Assessment and Source Control 5/26/08		07/15/08	Stormwater	Ongoing		SOW under development, due (8/2008).	Waiting on SCE to be completed	to be determined		Waiting on SCE completion (m-y)									N/A
Wilhelm Trucking	69	9.3W	3253 and 3074 NW St. Helens Road	Jim Orr			07/15/08	Overwater Activities	N/A	N/A	N/A	N/A	to be determined		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wilhelm Trucking	69	9.3W	3250 and 3074 NW St. Helens Road	Jim Orr			07/15/08	Other			No current schedule.	Waiting on SCE to be completed	to be determined		Waiting on SCE completion (m-y)									
GE Decommissioning	4003	9.5 W	2727 NW 29th	Tom Gainer	PH Agr for XPA (1/04)	XPA	08/20/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GE Decommissioning	4003	9.5 W	2727 NW 29th	Tom Gainer	PH Agr for XPA (1/04)	XPA	08/20/08	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GE Decommissioning	4003	9.5 W	2727 NW 29th	Tom Gainer	PH Agr for XPA (1/04)	XPA	08/20/08	Groundwater	N/A	N/A	N/A	N/A	none	Medium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GE Decommissioning	4003	9.5 W	2727 NW 29th	Tom Gainer	PH Agr for XPA (1/04)	XPA	08/20/08	Stormwater	Completed		2/06 SCE Report submitted	Pathway is complete	Medium		Done	SCM implementation report summer 2007	Removal of PCB contaminated sediment from onsite catch basins and pipes, new CBs/filters, new		1st qtr. 2007		Performance monitoring (ongoing)			Stormwater loading evaluation ongoing; complete by fall 2008
GE Decommissioning	4003	9.5 W	2727 NW 29th	Tom Gainer	PH Agr for XPA (1/04)	XPA	08/20/08	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Galvanizers Company	1196	9.6 W	2406 NW 30th	Jim Orr	PH Agr for XPA (10/03)	XPA	07/15/08	Overland Transport/Sheet Flow	N/A	N/A, site located ~4,500 feet from river	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Galvanizers Company	1196	9.6 W	2406 NW 30th	Jim Orr	PH Agr for XPA (10/03)	XPA	07/15/08	Bank Erosion	N/A	N/A, site located ~4,500 feet from river	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Galvanizers Company	1196	9.6 W	2406 NW 30th	Jim Orr	PH Agr for XPA (10/03)	XPA	07/15/08	Groundwater	Ongoing	Continued monitoring	Winter 2008	Pathway is complete	to be determined		Waiting on SCE to be completed.									
Galvanizers Company	1196	9.6 W	2406 NW 30th	Jim Orr	PH Agr for XPA (10/03)	XPA	07/15/08	Stormwater	Ongoing	Follow-up storm water monitoring per JSCS (30th Ave. side); assess connections, discharge, and potential impacts in City's 29th Ave. line.	Winter 2008	Pathway is complete	to be determined	to be determined	Waiting on SCE to be completed.		Final SCMs TBD. Interim SCMs include BMPs (yard sweeping, catch basin filter inserts), yard paving/sealing, improving operations, and reducing connections to City line(s)		Collecting/reusing Main Plant canopy roof run-off in galvanizing process (5/07), repairing/sealing pavement in NE plant yard (8/07).		Sealing unused/unecessary connections to City piping (Winter 2008), site paving and pavement sealing (Summer 2008)			
Galvanizers Company	1196	9.6 W	2406 NW 30th	Jim Orr	PH Agr for XPA (10/03)	XPA	07/15/08	Overwater Activities	N/A	N/A, site located ~4,500 feet from river	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Galvanizers Company	1196	9.6 W	2406 NW 30th	Jim Orr	PH Agr for XPA (10/03)	XPA	01/03/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paco Pumps	146	9.6 W	2551 NW 30th	Jim Anderson	ICP Agreement (01/03/07)	NFA	01/24/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none	Low	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paco Pumps	146	9.6 W	2551 NW 30th	Jim Anderson	ICP Agreement (01/03/07)	NFA	01/24/08	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paco Pumps	146	9.6 W	2551 NW 30th	Jim Anderson	ICP Agreement (01/03/07)	NFA	01/24/08	Groundwater	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paco Pumps	146	9.6 W	2551 NW 30th	Jim Anderson	ICP Agreement (01/03/07)	NFA	01/24/08	Stormwater	Completed	N/A		No current pathway; legacy solids in storm lines to be investigated	Low		Waiting on SCE completion									
Paco Pumps	146	9.6 W	2551 NW 30th	Jim Anderson	ICP Agreement (01/03/07)	NFA	01/24/08	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paco Pumps	146	9.6 W	2551 NW 30th	Jim Anderson	ICP Agreement (01/03/07)	NFA	01/24/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Goldendale Aluminum	2440	9.8 E	2600 N River	Tom Gainer	PH Letter Agr for XPA (2/00)	NFA 5/2004	03/06/06	Overland Transport/Sheet Flow	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented 5/04		No SCM needed					N/A	
Goldendale Aluminum	2440	9.8 E	2600 N River	Tom Gainer	PH Letter Agr for XPA (2/00)	NFA 5/2004	03/06/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Goldendale Aluminum	2440	9.8 E	2600 N River	Tom Gainer	PH Letter Agr for XPA (2/00)	NFA 5/2004	03/06/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented 5/04		No SCM needed					N/A	
Goldendale Aluminum	2440	9.8 E	2600 N River	Tom Gainer	PH Letter Agr for XPA (2/00)	NFA 5/2004	03/06/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low		EPA reviewed and commented 5/04		No SCM needed					N/A	
Goldendale Aluminum	2440	9.8 E	2600 N River	Tom Gainer	PH Letter Agr for XPA (2/00)	NFA 5/2004	03/06/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Goldendale Aluminum	2440	9.8 E	2600 N River	Tom Gainer	PH Letter Agr for XPA (2/00)	NFA 5/2004	03/06/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port of Portland Terminal 2	2769	10.0 W	3556 NW Front	Tom Gainer	IGA	XPA	08/20/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port of Portland Terminal 2	2769	10.0 W	3556 NW Front	Tom Gainer	IGA	XPA	08/20/08	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port of Portland Terminal 2	2769	10.0 W	3556 NW Front	Tom Gainer	IGA	XPA	08/20/08	Groundwater	Ongoing			Insignificant pathway; no actions recommended	Low		Waiting on SCE to be completed; 2008									
Port of Portland Terminal 2	2769	10.0 W	3556 NW Front	Tom Gainer	IGA	XPA	08/20/08	Stormwater	Ongoing	Evaluate stormwater system	Spring 2009	Waiting on SCE to be completed	to be determined	p Low	Waiting on SCE to be completed; 2009									
Port of Portland Terminal 2	2769	10.0 W	3556 NW Front	Tom Gainer	IGA	XPA	08/20/08	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port of Portland Terminal 2	2769	10.0 W	3556 NW Front	Tom Gainer	IGA	XPA	08/20/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
UPRR Albina	178	10.3 E	2745 N Interstate	Mike Romero	PH Agr for RI/SCM (3/02)	RI	08/06/08	Overland Transport/Sheet Flow	Ongoing	SCE ongoing	Fall 2008	SCE complete, DEQ review begin 9/08	p Low		Waiting on SCE to be completed									
UPRR Albina	178	10.3 E	2745 N Interstate	Mike Romero	PH Agr for RI/SCM (3/02)	RI	08/06/08	Bank Erosion	Ongoing	SCE ongoing	Fall 2008	SCE complete, DEQ review begin 9/08	p Low		Waiting on SCE to be completed									

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UPRR Albina	178	10.3 E	2745 N Interstate	Mike Romero	PH Agr for RI/SCM (3/02)	RI	08/06/08	Groundwater	Ongoing	SCE ongoing, additional characterization completed 2006	Fall 2008	SCE complete, DEQ review begin 9/08	to be determined	p Low	Waiting on SCE to be completed									
UPRR Albina	178	10.3 E	2745 N Interstate	Mike Romero	PH Agr for RI/SCM (3/02)	RI	08/06/08	Stormwater	Ongoing	SCE ongoing, sampling initiated 2006	Fall 2008	SCE complete, DEQ review begin 9/08	to be determined		Waiting on SCE to be completed		RP cleaned out stormwater system prior to completion of screening; sytem repairsto stop GW infiltration statred 07'							
UPRR Albina	178	10.3 E	2745 N Interstate	Mike Romero	PH Agr for RI/SCM (3/02)	RI	08/06/08	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
UPRR Albina	178	10.3 E	2745 N Interstate	Mike Romero	PH Agr for RI/SCM (3/02)	RI	08/06/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Substation E	3976	10.4 W	2635 NW Front Ave.	Tom Gainer	VCP	NFA	12/22/06	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Substation E	3976	10.4 W	2635 NW Front Ave.	Tom Gainer	VCP	NFA	12/22/06	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Substation E	3976	10.4 W	2635 NW Front Ave.	Tom Gainer	VCP	NFA	12/22/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low	Low	EPA commended on SCD in 10/06	Source Control Decision and NFA issued 12/6/06								
PGE Substation E	3976	10.4 W	2635 NW Front Ave.	Tom Gainer	VCP	NFA	12/22/06	Stormwater	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Substation E	3976	10.4 W	2635 NW Front Ave.	Tom Gainer	VCP	NFA	12/22/06	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PGE Substation E	3976	10.4 W	2635 NW Front Ave.	Tom Gainer	VCP	NFA	12/22/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sulzer Pump	1235	10.4 W	2800 NW Front	Mark Pugh	PH Agr for XPA (9/02)	XPA	06/16/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sulzer Pump	1235	10.4 W	2800 NW Front	Mark Pugh	PH Agr for XPA (9/02)	XPA	06/16/08	Bank Erosion	Ongoing	RP is conducting a SCE	fall 2008	Waiting on SCE to be completed	p Low		N/A									
Sulzer Pump	1235	10.4 W	2800 NW Front	Mark Pugh	PH Agr for XPA (9/02)	XPA	06/16/08	Groundwater	Ongoing	Need for additional characterization to be determined	to be determined	Waiting on SCE to be completed	p Low		N/A									
Sulzer Pump	1235	10.4 W	2800 NW Front	Mark Pugh	PH Agr for XPA (9/02)	XPA	06/16/08	Stormwater	Ongoing	RP is conducting a SCE	fall 2008	Waiting on SCE to be completed	Medium	Medium	N/A		Storm line and catch basin cleanout		Cleanout completed in Oct 2006	25 tons of sludge	twice annual cleaning of catch basins		N/A	periodic inspection and maintenance; twice annual cleanout
Sulzer Pump	1235	10.4 W	2800 NW Front	Mark Pugh	PH Agr for XPA (9/02)	XPA	06/16/08	Overwater Activities	N/A	N/A	N/A	No known current sources (spills reported to OERS)	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sulzer Pump	1235	10.4 W	2800 NW Front	Mark Pugh	PH Agr for XPA (9/02)	XPA	06/16/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port of Portland Terminal 1 North	3377	10.6 W	2200 NW Front	Tom Gainer	PH Agr for RI/SCM	RI	08/20/08	Overland Transport/Sheet Flow	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port of Portland Terminal 1 North	3377	10.6 W	2200 NW Front	Tom Gainer	PH Agr for RI/SCM	RI	08/20/08	Bank Erosion	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port of Portland Terminal 1 North	3377	10.6 W	2200 NW Front	Tom Gainer	PH Agr for RI/SCM	RI	08/20/08	Groundwater	Pending EPA Review		Fall 2008	Insignificant pathway; no actions recommended	p Low	p Low	Waiting on SCE to be completed; Fall 2008									
Port of Portland Terminal 1 North	3377	10.6 W	2200 NW Front	Tom Gainer	PH Agr for RI/SCM	RI	08/20/08	Stormwater	Ongoing	Review BES catch basin sediment data	Fall 2008	Waiting on SCE to be completed	p Low		Waiting on SCE to be completed; Fall 2008									

Table 1: DEQ Milestone Report
Controlling Confirmed or Suspected Upland Sources of Contamination to Portland Harbor

Confirmed or suspected sources of contamination to the river								Source Control Evaluation (SCE)								Source Control Decisions (SCDs) and Status of Source Control Measures (SCMs)								
Site information					Project status							Basis for determination that source control is needed												
Site name	ECSI #	River mile	Address	DEQ PM	Type of agreement directing source control	Project status	Date last modified (m-d-y)	Potential contaminant migration pathway	Status of SCE	Major SCE tasks to be completed	Schedule for completing SCE	Pathway determination	Pathway priority level	Site priority level	Status of EPA review of SCE decision	Source control alternatives evaluation and schedule (m-y)	Selected SCMs	Status of EPA review of SCM selection decision	SCM activities completed to date (m-y)	Mass or volume of contaminants controlled	Proposed SCM activities to be done and schedule (m-y)	Date SCM completed (m-y)	Status of EPA review of completed SCM	Operaton and maintenance requirements
Port of Portland Terminal 1 North	3377	10.6 W	2200 NW Front	Tom Gainer	PH Agr for RI/SCM	RI	08/20/08	Overwater Activities	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Port of Portland Terminal 1 North	3377	10.6 W	2200 NW Front	Tom Gainer	PH Agr for RI/SCM	RI	08/20/08	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Riverscape (aka Port of Portland T1S)	2642	10.9 W	2100 NW Front	Matt McClincy	RD/RA Agreement (06/06/03)	Conditional NFA 6/2003	03/13/06	Overland Transport/Sheet Flow	Completed			Insignificant pathway; no actions recommended	Low		EPA did not review SCD since site was outside PH		Soil removal and management plan during development, Deed restrictions						EPA did not review SCD since site was outside PH	
Riverscape (aka Port of Portland T1S)	2642	10.9 W	2100 NW Front	Matt McClincy	RD/RA Agreement (06/06/03)	Conditional NFA 6/2003	03/13/06	Bank Erosion	Completed			Insignificant pathway; no actions recommended	Low		EPA did not review SCD since site was outside PH		No SCM needed						EPA did not review SCD since site was outside PH	
Riverscape (aka Port of Portland T1S)	2642	10.9 W	2100 NW Front	Matt McClincy	RD/RA Agreement (06/06/03)	Conditional NFA 6/2003	03/13/06	Groundwater	Completed			Insignificant pathway; no actions recommended	Low	Low	EPA did not review SCD since site was outside PH		No SCM needed						EPA did not review SCD since site was outside PH	
Riverscape (aka Port of Portland T1S)	2642	10.9 W	2100 NW Front	Matt McClincy	RD/RA Agreement (06/06/03)	Conditional NFA 6/2003	03/13/06	Stormwater	Completed			Insignificant pathway; no actions recommended	Low		EPA did not review SCD since site was outside PH		No SCM needed						EPA did not review SCD since site was outside PH	
Riverscape (aka Port of Portland T1S)	2642	10.9 W	2100 NW Front	Matt McClincy	RD/RA Agreement (06/06/03)	Conditional NFA 6/2003	03/13/06	Overwater Activities	Completed			Insignificant pathway; no actions recommended	Low		EPA did not review SCD since site was outside PH		No SCM needed						EPA did not review SCD since site was outside PH	
Riverscape (aka Port of Portland T1S)	2642	10.9 W	2100 NW Front	Matt McClincy	RD/RA Agreement (06/06/03)	Conditional NFA 6/2003	03/13/06	Other	N/A	N/A	N/A	N/A	none		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DEQ Source Control Decisions
Current and Potential Upland Sources to the River

Site Location Key

Link to map of sites:
http://www.deq.state.or.us/nwr/PortlandHarbor/phmap.pdf

Site Name	AKA - alternate site names	ECSI # (primary)	ECSI # (secondary)	River Mile	Address
ACF Industries	American Car Foundry, EMC Industries - ACF Car, Pacific Metal Substations, Inc., Richmond Tank Car and Manufacturing Co.	794		3.6	12160 NW St Helens
Anderson Brothers		970		8.9	5275 & 5315 NW St. Helens Road
Atofina	Arkema, Elf Atochem North America, Pennwalt Chemical Corp.	398		7.2	6400 NW Front
BP Terminal 22T	ARCO, ARCO Linnton Terminal, BP Atlantic Richfield Company	1528	2373, 2351	5.3	9930 NW St Helens
Brix Maritime	Foss Maritime Co., Knappton Corp.	2364		5.7	9030 NW St Helens
Calbag Metals	ACME Trading and Supply	2454	2425	8.5	4927 NW Front
Chevron Asphalt		1281		8	5501 NW Front
Christensen Oil	HAJ, Incorporated	2426		8.9	3821 NW St Helens
City of Portland Outfalls		2425		3.5 to 9.2	various
Columbia American Plating		29		9.3	3003 NW 35th Ave.
Con-Metco		3295		2.8	3940 N Rivergate
Container Management		4784		9.3	300 N. Basin
Container Recovery		4015		8.8	3900 NW Yeon
Crawford Street Corp	Columbia Forge & Machine Works, Lampros Steel - 8524 N Crawford, TLS Steel - 8514 N Crawford	2363		6.3	84248 N Crawford
Esco Landfill		4409		NA	14444 NW Gilliam Loop Rd.
Exxon Mobil	ExxonMobil Bulk Plant, ExxonMobil Terminal, Mobil NuStar Oil Bulk Plant - St. Helens RD, Shore Terminals, ST Services, Olympic Pipeline	137		5.1	9420 NW St Helens
Fred Devine	Pacific Coast Environmental, The Marine Salvage Consortium Inc	2365		8.3	6211 N Ensign
Freightliner (Parts Manufacturing Plant)	a.k.a. Freightliner Truck Manufacturing Plant II	115		9.2	5400 N Basin
Freightliner (Truck Plant)		2366		8.4	6936 N. Fathom
Front Ave LP	CMI Northwest, Hampton Lumber Sales, Glacier NW (former Lone Star), Tube Forgings of America.	1239	2378	8.1	4950, 5034 & 5200 NW Front
Galvanizers Company		1196	2425	9.6	2406 NW 30th Ave.
Gasco	NW Natural, Koppers Co. - Portland, Pacific Northern Oil Co.,	84	183	6.4	7900 NW St Helens
Gasco/Siltronic Corp.	Siltronic Corporation, Walker Siltronic	183	84	6.6	7700 NW Front
GE Decommissioning		4003	2425	9.5	2727 NW 29th Ave.
Georgia Pacific Linnton	Georgia-Pacific / Western Wood Prods Manuf Divn, Georgia-Pacific West, Morge Bros.	2370		3.9	12222 NW Marina
Goldendale Aluminum	Ash Grove Cement, Columbia Aluminum, Martin Marietta, Golden NW Aluminum	2440		9.8	2600 N River
Gould Electronics	NL Industries	49		7.5	5909 NW 61st Ave.
GS Roofing	Bird & Son, Certainteed Corporation, Fibreboard Corporation	117		7.5	6350 NW Front

DEQ Source Control Decisions
Current and Potential Upland Sources to the River

Site Location Key

Link to map of sites:
http://www.deq.state.or.us/nwr/PortlandHarbor/phmap.pdf

Site Name	AKA - alternate site names	ECSI # (primary)	ECSI # (secondary)	River Mile	Address
Guilds Lake RR Yard	Burlington Northern Santa Fe Railroad Lake Yard, Guilds Lake Railyard, Kleen Blast Abrasives, Lake Yard, Portland Terminal Railroad Guilds Lake Yard	100		9	3500 NW Yeon
Gunderson		1155	2372, 2425	9.0	4350 SW Front
Mt. Hood Chemical	Chenical Warehouse RI/SC	81		8.5	4444 NW Yeon
Jefferson Smurfit	Burgard Industrial Park	2371		3.7	9930 N Burgard
Kinder Morgan	GATX, GATX Linnton Terminal, GATX St. Helens Road Facility	1096		4.2	11400 NW St Helens
Lakeside Industries		2372	1155	8.4	4850 NW Front
Linnton Oil Fire Training Grounds		1189		4	NW Marina Way
Linnton Plywood		2373		4.6	10504 NW St Helens
Mar Com Marine (N Parcel)	L & S Marine, Mar Com Marine Ways, Marine Machine Works (Former), Nichols Marine Ways Inc., Riverside Lumber Co. (Former)	2350		5.6	8790 N Burgard
Mar Com (S Parcel)	St. Johns Langley LLP, Brix (current owner), L & S Marine, Mar Com Marine Ways (former owner), Marine Machine Works (Former), Nichols Marine Ways Inc., Riverside Lumber Co. (Former)	2350		5.8	8790 N Burgard
Marine Finance	Hendren Tow Boat, REH Inc., Riverside Industrial Park, Advanced American	2352		5.8	8444 NW St Helens
McCall Oil	Great Western Chemical, Quadra Chemicals	134		7.4	5550 NW Front
McCormick & Baxter		74		7	6900 N. Edgewater Street
NW Pipe	Northwest Pipe Company	138		3.9	12005 N Burgard
Oregon Steel Mills	Gilmore Steel Corp. - Rivergate	141		2.2	14400 N Rivergate
Owens-Corning Fiberglass	Trumbull Asp, Kingsley Park, Linnton Planing Mill, Paramount Petroleum Site	1036		3.8	11444 NW St Helens
Paco Pumps		146		9.6	2551 NW 30th
PGE Harborton		2353		3.2	NW Marina Way
PGE Forest Park		2406		8.5	4400 Block NW St. Helens Road
PGE Station E		3976		10.4	2635 NW Front Ave.
Port of Portland Auto Storage Area (ASA)	Toyota	2642		5.0	10400 Lombard
Portland Shipyard	Cascade General, Swan Island Upland Facility, North Channel Ave Fabrication, Berth 311	271		8.4	Swan Island
Premier Edible Oils	C & T Quincy Foods (SEE ECSI 2355), Schnitzer Investment Corp.	2013	2355	3.6	10400 N Burgard
Riverscape	Port of Portland T1S	2642		10.9	2100 NW Front
Schnitzer Steel	Schnitzer Steel Part of Industrial Park DEQ Site	2355		4.1	12005 N Burgard
Schnitzer Burgard	International Terminals, North Burgard Industrial Park	2355		4.1	12005 N Burgard
Schnitzer Kittridge	Asset Recovery, Schnitzer Investment Corp	2442		8.3	4959 NW Front
Shaver Transportation		2377		8.4	4900 NW Front

DEQ Source Control Decisions
Current and Potential Upland Sources to the River

Site Location Key

Link to map of sites:
http://www.deq.state.or.us/nwr/PortlandHarbor/phmap.pdf

Site Name	AKA - alternate site names	ECSI # (primary)	ECSI # (secondary)	River Mile	Address
Siltronic Corp. TCE Investigation	Siltronic Corporation, Walker Siltronic	183		6.6	7200 NW Front
Sulzer Pump	Bingham International, Bingham Willamette, Sulzer Pumps, Inc.	1235		10.4	2800 NW Front
Terminal 1 North	BES- Nicolai Shaff	3377		10.6	2200 NW Front
Terminal 2		2769		10	3556 NW Front
Terminal 4 Slip 1	IRM, Cargill	2356		4.3	11040 N Lombard
Port of Portland - Terminal 4 Slip 3	Hall-Buck Marine Inc., Oregon Terminal Company (OTC), OTC Gearlock Maintenance Facility (Former), Quaker State Oil Co., UPRR - Product Transfer Pipeline (Former)	272		4.6	10400 Lombard
Terminal 5	Oregon Steel Mills Slag Pile, Port of Portland - Terminal 5, Blue Lagoon	1686		1.5	15540, 15550, & 15560 N Lombard
TexacoTerminal	Equilon, Shell, Texaco Product Pipeline	169	2117	8.9	3800 NW St Helens
Time Oil (Northwest Terminal)	Bell Terminal	170		3.4	10350 Time Oil Rd
Triangle Park (N PDX Yard)	North Portland Yard, Riedel Environmental Services - N Portland Yard, Sakrete of the Pacific Northwest, Inc., Western Pacific Dredging/Drilling/Piledriving/etc., Willamette-Western Company, World Security Services Company	277		7.5	5828 N Van Houten
UPRR Albina	Albina Rail Yard, Union Pacific RR - Albina Yard	178		10.3	2745 N Interstate
UPRR St Johns Tank Farm	Union Pacific RR - St. Johns Tank Farm, UPRR - Product Transfer Pipeline (Former), UPRR Fuel Loading Facility (Former), Port of Portland Terminal 4 Slip3	2017		4.6	6908 N Roberts
USCG	US Coast Guard - Portland Station	1338		8.2	6767 N Basin Ave.
US Moorings		1641		6.2	8010 NW St. Helens Rd.
Willamette Cove		2066		6.8	Foot of N Edgewater
Willbridge	Kinder Morgan, Chevron, ConocoPhillips, GATX - Willbridge Terminal, Tosco - Willbridge Terminal, Unocal - Willbridge Terminal	1549		7.7	Front Ave & NW Doane
Rhone Poulenc	East Doane Lake, Aventis Crop Science, Rhone Poulenc Agricultural Company	155		6.9	6200 NW St Helens
Triangle Park (N PDX Yard)		277	7.5		5828 N Van Houten
UPRR Albina		178	10.3		2745 N Interstate
UPRR St Johns Tank Farm		2017	4.6		6908 N Roberts
USCG		1338	8.2		6767 N Basin Ave.
Vanwater and Rogers	Univar	330			3950 NW Yeon Ave.
Willamette Cove		2066	6.8		Foot of N Edgewater
Willbridge	Kinder Morgan, Chevron, ConocoPhillips	1549	7.7		Front Ave & NW Doane
Rhone Poulenc		155	6.9		6200 NW St Helens

DEQ Milestone Report
Information about the Source Control Table

Use Of This Sheet

This spreadsheet is intended to track and share information regarding the status of current and potential future upland source control measures. Information is logged by the status of the evaluation in each pathway. The following pathways are included: overland transport, back erosion, groundwater, stormwater, overwater activities, and other (see definitions below). Site included in this spreadsheet are currently being investigated under DEQ oversight or a recent source control decision made for the facility. For more information on these sites please visit DEQ's Environment Cleanup System Information (ECSI) database at http://www.deq.state.or.us/wmc/ECSI/ecsiquery.htm

Definitions

Potential contaminant migration pathways

Overland Transport = Uncontrolled sheet flow of water and other material to the river from a site.

Bank Erosion = Erosion of material within the sloping bank areas of the site to the river.

Groundwater = Groundwater plumes or discharges to the river either via seeps or through preferential pathways.

Stormwater = Stormwater discharges to the River that originates from a pipe (permitted or unpermitted).

Overwater Activities = The storage or use of hazardous substances over the water (i.e., storage tanks on docks, permanent work activities conducted over water), that if released would be a ptotential current or future source of contamination to the river. Pipelines and other conveyance systems are not considered in this category. Releases from these types of systems need to be reported to the state Oregon Emergency Response System (OERS) system.

Other = Pathway examples: wastewater discharges, air deposition, direct discharges.

Priority levels for pathways and sites

High = High priority pathways and sites are those where a complete contaminant migration pathway exists and the upland source is significantly impacting the river or poses a significant and imminent threat to the river based on initial evaluation of key source control prioritization factors (listed on p. 4-3 JSCS). A primary consideration is that one or more media (soil, water, air) significantly exceed applicable Screening Level Values (SLVs) at the point of discharge to the river (e.g., water at the end of a discharge pipe, or soil or material at the riverbank) or the most reliable and cost-effective data point (e.g., groundwater measured at the shoreline), or where a bioaccumulative chemical is detected at concentrations significantly above the SLV. In addition, if an upland source is violating DEQ narrative water quality criteria for the Willamette River, the site may be considered a high priority. High priority sites are expected to move forward with aggressive source control measures without delay or be subject to enforcement action.

Medium = Medium priority pathways and sites are those where a complete contaminant migration pathway exists and the upland source is impacting the river or poses a significant and/or imminent threat to the river based on an initial evaluation of key source control prioritization factors (listed on p. 4-3 JSCS). A primary consideration is that one or more media exceed applicable SLVs, but not significantly, at the point of discharge to the river, or where a bioaccumulative chemical is detected at concentrations above the SLV. Although exceedance of SLVs does not necessarily indicate a site poses a significant and/or imminent threat or needs to immediately implement source control measures, it does indicate that the site may pose a threat to human health or the environment and that additional evaluation may be needed to determine if source control measures are required to prevent, minimize or mitigate the migration of hazardous substances to the river. If the site exceeds one or more SLVs, the need for further characterization or for implementation of source control measures will be based on a site-specific weight-of-evidence determination. Medium priority sites are

Low = Low priority pathways and sites are those where upland data indicate, based on an initial evaluation of key source control prioritization factors (listed on p. 4-3 JSCS), that the site likely poses a low threat to the river (e.g., concentrations are near or below SLVs) or where DEQ, in consultation with EPA, may issue an upland "No Further Action" (NFA) determination or lower the State's priority of the site for further upland investigation or remedial action under DEQ's cleanup authority. Source control measures will not be required at low priority sites unless determined necessary by the results of the Portland Harbor RIFS or ROD.

p High = DEQ's preliminary determination is that this is likely a high priority pathway or site based on available information; pending formal source control evaluation determination.

p Med = DEQ's preliminary determination is that this is likely a medium priority pathway or site based on available information; pending formal source control evaluation determination.

p Low = DEQ's preliminary determination is that this is likely a low priority pathway or site based on available information; pending formal source control evaluation determination.

Shading

[ ] = Upland Source Control Decision has been completed for the specified pathway at this site.

DEQ Milestone Report
Information about the Source Control Table

Pick Lists

Pick lists are used to faciliate the addition of information to the spreadsheet. A pick list is a list that can be used by the project manager to select an entry from a group of designated choices. Pick lists will appear as a pull down menus in the lower right corner for the following fields: *Project status, Status of SCE, Schedule for Completing SCE, Completeness of pathway to the river, Pathway priority level, Site priority level, Source control alternatives evaluation and schedule, Selected SCMs, Mass or volume of contaminants controlled,* and *Operation and maintenance requirements*. The pick lists for these fields are shown below.

Project Status
PA
XPA
RI
FS
RD / RA
NFA
PPA
CNFA

Status of SCE
Ongoing
Not Started
Pending EPA Review
Completed
N/A

Schedule for completing SCE
No current schedule.
SOW under development, due (type
SOW currently being implemented.
(PM description of schedule)
N/A

Pathway determination
Pathway is complete
Insignifcant pathway; no actions recommended
Waiting on SCE to be completed
No known current sources (spills will be reported to OERS)
(PM description of source and pathway)
N/A (use when the pathway does not exist at the site)

Alternatives evaluation and schedule
no alternatives evaluation needed
schedule for completing draft evaluation report:
schedule for completing final evaluation report: (m/y)
evaluation to be part of upland FS; schedule for completing draft/final: (m/y)
alternatives evaluation completed (m/y)

Priority level
High
Medium
Low
p High
p Med
p Low
to be determined
none (use if SCE determined the pathway to be incomplete)

Status of EPA "Partners" Review of SCA Decision
EPA reviewed and commented.
Review Pending. SCA submitted (type date).
SCA to be submitted on (type date).
Public Comment period (type date) to (type date).
SCA submitted to EPA (type date). No comments.
N/A

Status of EPA review of SCE decision
Review pending; SCE submitted (m-y)
Waiting on SCE completion (m-y)
SCE to be submitted to EPA on (m-y)
To be determined
SCE submitted to EPA (m-y), no comments
N/A

Selected SCMs
No SCM needed
(PM description of SCMs)
N/A

Operation and Maintenance requirements
periodic inspection and maintenance
effectiveness monitoring
site use restrictions
(PM description of operation/maintenance requirements)
none

Mass/Volume of contaminants controlled
cubic yards of soil removed
square feet of area capped
linear feet of plume controlled at riverbank
linear feet of riverbank stabilized
gallons of product recovered
(PM description of mass/volume/area controlled)

DEQ Milestone Report
Information about the Source Control Table

Acronyms & Abbreviations

Agr	Agreement
AOC	Administrative Order on Consent
AS/SVE	Air sparge soil vapor extraction
AST	Above ground Storage Tank
BMPs	Best Management Practices
BRA	Baseline Risk Assessment
CNFA	Conditional No Further Action
ECSI	Environmental Cleanup Site Information
FS	Feasibility Study
GW	Groundwater
IGA	Inter-Governmental Agreement
JSCS	Joint Source Control Strategy
NA	Not Applicable
NFA	No Further Action
OF	Outfall
p&t	Pump & Treat
PA	Preliminary Assessment
PH	Portland Harbor
PH Agr	Portland Harbor Agreement - a formal agreement for a RI and SC
PH Ltr Agr	Portland Harbor Letter Agreement - an initial contract covering DEQ oversight costs and limited investigation and cleanup activities
PM	Project Manager
PPA	Prospective Purchaser Agreement
RD/RA	Remedial Design/Remedial Action
RI	Remedial Investigation
RI/FS	Remedial Investigation/Feasibility Study
SC	Source Control
SCD	Source Control Decision
SCM	Source Control Measure
SLV	Screening Level Value
SOW	Scope of Work
SVE	Soil Vapor Extraction
TCA	Trichloroethane
UST	Underground Storage Tank
WO	Waiting on
XPA	Expanded Preliminary Assessment

DEQ Project Managers' Phone Numbers

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Mark Pugh	(503) 229-5587
Dave Lacey	(503) 229-5354
Mike Romero	(503) 229-5563
Jennifer Sutter	(503) 229-6148
Karen Tarnow	(503) 229-6843
Jim Orr	(503) 229-5039
Scott Manzano	(503) 229-6748

Status of High Priority Sites

Table 2

	Site	River Mile	High Priority Pathway	Source Control Evaluation	Selection of Source Control Measure	Implementation of Source Control Measure	Remarks
1	Oregon Steel Mills	2.2	Bank erosion	Complete	-Currently considering re-design incorporating bioengineering based largely on satisfying ESA concerns	-Summer 2009	
			Stormwater	Complete	-Complete	-End-of-pipe treatment system operating since 10/07. BMPs implemented. Expansion of of treatment system being being considered.	
2	City Stormwater Outfalls	Various	Stormwater	Ongoing (2009)			-Iterative approach done on basin-by-basin basis. -Objective of SCE is to identify up-pipe sources.
3	Premier Edible Oil	3.6	Groundwater	Ongoing (early 2009)			-Field work supporting SCE complete
4	Schnitzer Steel	4.1	Stormwater	Ongoing (4th Qtr '09)		-Stormwater BMPs & limited interim SCMs in place	-High Priority site based on LWG stormwater data
5	Schnitzer Burgard Industrial Park	4.1	Stormwater	Ongoing (4th Qtr '09)			
6	Kinder Morgan (former GATX)	4.2	Groundwater	Ongoing (4th Qtr '08)	-GW pump & treat system in-place -SCE designed to enhance existing interim GW SCM		
7	BP/Arco	4.8	Groundwater	Complete	-Barrier wall & enhanced GW pump & treat system in-place -Riverbank & nearshore sediment removal approved & ongoing	-RP started SCM in summer '07 Fish Window & is trying to complete work in '08 Fish Window	
8	Exxon/Mobil	5.1	Groundwater	Complete	Complete	Complete	-SCM selected in 1997 DEQ ROD onging. -Further SCMs are being studied & enhanced
9	MarCom South	5.8	Overland runoff	Ongoing (4th Qtr '08)			-RP will remove sand blast grit piles in fall '08 as part of "housekeeping" effort
10	Gasco	6.4	Groundwater	Complete	-SCM Eval report (FFS) submitted 10/07	-Negotiating the design & construction of a vertical barrier wall/extraction well SCM	
			Bank erosion	Complete	-Coordinate with upland GW SCMs		
11	Gasco (Siltronics)	6.6	Groundwater	Ongoing (4th Qtr '08)	-SCE for Segement 1 completed -SCE for Segment 3 due 4th Qtr '08		-Gasco MGP waste on the Siltronic property
12	Siltronic	6.5	Groundwater	Complete	-SCM Eval report (FFS) submitted 10/07 -Enhanced in-site bioremediation (EIB) SCM selected for source area.	-EIB SCM in source area currently in design	-RP proposes EIB treatment near riverbank
13	Rhone Poulenc	6.9	Groundwater	Ongoing (1st Qtr '09)	-RP is currently pilot testing potential GW pump & treat SCM.		
14	Arkema	7.2	Groundwater	Complete	-Revised FFS for barrier wall & hydraulic containment due 9/08		-RP implemented series of pilot & full-scale SCMs
			Stormwater	Complete	-Draft Stormwater FFS in review		
			Bank erosion	Complete			-To be integgrated into in-water Early Action
15	Willbridge	7.7	Groundwater	Complete (except for deep GW)	Complete	Complete	-Ongoing GW pump & treat SCMs -Further SCMs are being studied & enhanced
16	Gunderson	9.0	Groundwater	-TDB, pending DEQ review of RI Report			-Ongoing GW pump & treat SCM in Area 1
			Stormwater	-TBD, pending DEQ review of RI Report			
			Bank erosion	-TBD, pending DEQ review of RI Report			
			Overland runoff	-TDB, pending DEQ review of RI Report			

Notes: 1) Date in parentheses is expected date of completion
2) Source Control Evalaution (SCE)

RM-0

RM-1

RM-2

RM-3

Rivergate Industrial Park

Terminal 5

Port of Portland

Blue Lagoon - Marine Terminal 5

Consolidated Metco Inc.

Ro-mar Rlty of OR Inc.

Metco Inc.

South Rivergate Industrial Park

Oregon Steel Mills Inc.

P. O. P.

Steelmill Warehouse LLC

JR Simplot Co.

Ash Grove Cement Co.

Time Oil NW Terminal

Portland General Electric Co.

P.O.P. (leased)

P. O. P.

Walters Douglas J

Schnitzer Invest. Corp.

Smurfit-Stone Container

St. Johns - Keeler #2 Right-Of-Way

Millican Properties LLC

Lampros Properties LLC

Schnitzer Invest. Corp.

RL R Invest. LLC

Northwest Pipe Co.

P.O.P.

P.O.P. (leased)

P.O.P. (leased)

P.O.P. (leased)

P.O.P. (leased)

P.O.P.

UPRR

Terminal 4

Slip 1

Slip 3

Schnitzer Steel Industries Inc.

International Terminals Slip

Linnton

RK Storage & Warehousing Inc.

Olympic Pipeline Company

Kinder Morgan

RK Transfer & Storage Inc.

Babcock Land Co. LLC

Owens-Corning Fiberglas Corp.

Morse Bros. Inc.

ACF Industries Inc.

Portland General Electric Co.

Linnton Oil Fire Training

Alder Creek Lumber Co. Inc.

Frevach Land Co.

Upland (ECSI) Site	Generalized Zoning
Active Outfalls	Commercial
Unknown Outfalls	Industrial
Abandoned Outfalls	Multi Family
River Miles	Mixed Use Employment
Basin Boundary	Mixed Use Residential
*Site/Vicinity Parcels	Public Features
Navigation Channel	Parks & Open Spaces
Docks and Structures	Rural
Bridges	Single Family
Waterfront Vicinity Tax Lots	

*Site/Vicinity Parcels:
Parcel ownership outlines on or in the vicinity of ECSI Sites or near the waterfront. Sites were labeled or outlined within the basin and within a mile of the river between river mile 2 and 11.

FEATURE SOURCES:
Transportation, Property, Zoning, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
Outfalls: City of Portland, April 2006.

N

0 1,000 2,000 Feet

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Fig. 1-a

C

Land Zoning and Ownership

Upland (ECSI) Site
Active Outfalls
Unknown Outfalls
Abandoned Outfalls
River Miles
Basin Boundary
*Site/Vicinity Parcels
Navigation Channel
Docks and Structures
Bridges
Waterfront Vicinity Tax Lots

Generalized Zoning
Commercial
Industrial
Multi Family
Mixed Use Employment
Mixed Use Residential
Public Features
Parks & Open Spaces
Rural
Single Family

*Site/Vicinity Parcels:
Parcel ownership outlines on or in the vicinity of ECSI Sites or near the waterfront. Sites were labeled or outlined within the basin and within a mile of the river between river mile 2 and 11.

St. Johns - Keeler #2 Right-Of-Way
Millican Properties LLC
Lampros Properties LLC
Schnitzer Invest. Corp.
Northwest Pipe Co.
P.O.P.
P.O.P. (leased)
P.O.P. (leased)
P.O.P. (leased)
P.O.P. (leased)
P.O.P. (leased)
P.O.P.
P.O.P. (leased)
Slip 1
Terminal 4
Slip 3
UPRR - St. Johns Tank Farm
Multnomah County - St. Johns Site
Unocal Service Station #3911 (Former)
Steel Hammer Properties LLC
Brix De Armond LLC
Langley-St. Johns Partnership
P.O.P. (leased) Auto Storage
City of Portland
City of Portland
P.O.P.
St. Johns Bridge
RM-5
RM-7
RM-8
Willamette Cove
Petroleum Release - N Edgewater St
McCormick & Baxter Creosoting Co.
Triangle Park LLC
Metro
Railroad Bridge
Freightliner Corp. (TMP)
The Marine Salvage Consortium
US Coast Guard
USA
University of Portland
Portland
McCall Oil Real Estate
Zidell, Emery
Willbridge Terminal
Tanker Basin LLC
Arkema Inc.
City of Portland
Genstar Roofing Co Inc.
P.O.P. (leased)
GWC Properties LLC
Willbridge Bulk Fuel
Siltronic Corp.
Schnitzer Invest. Corp.
Paramount of Oregon Inc.
Kinder Morgan
Chevron USA Inc.
ConocoPhillips Co.
Willbridge Yard
Anderson Bros. Inc.
Schnitzer Invest. Corp
Kesef Development LLC et
Mt. Hood Chemical P
Linnton Plywood Assn.
Columbia River Sand & Gravel Inc.
Olympic Pipe Line Portland Delivery Facility
Hendrew Tow Boats
United States of America
Northwest Natural Gas Co.
ESCO Corp. - Willbridge Landfill
Nikko Materials Usa Inc.
Starlink Logistics Inc.
Starlink Logistics Inc.
BNSF Railway Co.
Shore Terminals LLC
BP West Coast Products LLC
Exxon Mobil Oil Corp.
Brix Maritime Co.
Advanced American Const.
City of Portland
Advanced American Const.
Advanced American Const.
Transloader International
Koppers Industries Inc.
Southern Pacific Pipe Lines
V&K Service
Metro Central Transfer Station

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FEATURE SOURCES:
Transportation, Property, Zoning, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.
Outfalls: City of Portland, April 2006.

0 1,000 2,000 Feet

Fig. 1-6

Land Zoning and Ownership

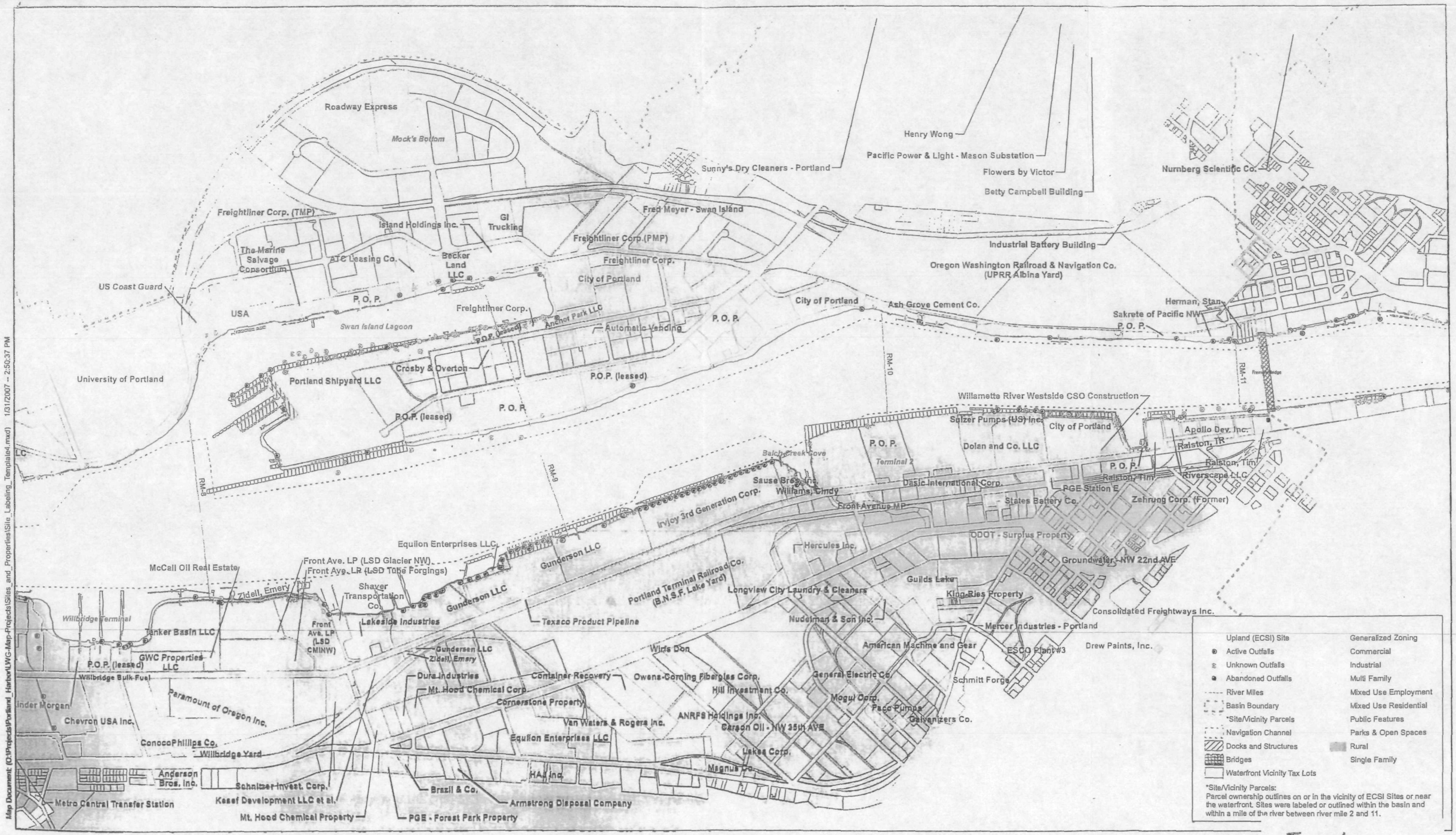

Fig 1-c

Land Zoning and Ownership